

PERSONAL DATA

Name: Matthew Colman
 Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
1997 - 2001	B.A.	Dartmouth College (Chemistry with Italian language concentration) Hanover, NH
2003 - 2007	M.D.	University of Chicago Pritzker School of Medicine (Medicine) Chicago, IL
2007 - 2012	Resident	University of Pittsburgh Medical Center (Orthopedic Surgery) Pittsburgh, PA
2012 - 2013	Fellow	Harvard University (Musculoskeletal Oncology) Boston, MA
2013 - 2014	Fellow	University of Utah (Orthopedic and Neurosurgical Spine Surgery) Salt Lake City, UT

BOARD CERTIFICATIONS

07/12/2012 American Board of Orthopaedic Surgery, Passed Part I

CURRENT LICENSES/CERTIFICATIONS

2012- Massachusetts State Medical Board
 2013- Utah State Medical Board

PROFESSIONAL EXPERIENCE**Full Time Positions**

2001 - 2003 Associate Consultant for Business Strategy, The Parthenon Group, Boston, MA

- Performed market research, financial analysis, and strategy optimization

SCHOLASTIC HONORS

1999 - 2001 Dartmouth College, Presidential Scholar Research Fellow in Chemistry, Hanover, NH
 2001 Dartmouth College, Merck Prize for Achievement in Chemistry, Hanover, NH
 2001 Dartmouth College, Zabriskie Research Fellow in Chemistry, Hanover, NH
 2001 Rhodes Scholar National Finalist
 2001 Dartmouth College, Academic All-Ivy, First Team Track and Field
 2001 Dartmouth College, B.A. Honors, Cum Laude, Hanover, NH
 2004 Keith Edson International Health Fellowship for Clinical Study, Rome, Italy
 2004 University of Chicago, Scientific Research Forum, Honorable Mention, Chicago, IL
 2007 Alpha Omega Alpha, University of Chicago, Chicago, IL
 2007 University of Chicago Pritzker School of Medicine, Outstanding Achievement Award, For the most outstanding achievement over four years of medical school, Chicago, IL
 2007 University of Chicago Pritzker School of Medicine, M.D. with Honors, Chicago, IL
 2010 University of Pittsburgh, J Orthopedic Trauma, Best Resident Teaching Award, Pittsburgh, PA
 2012 University of Pittsburgh Medical Center, 2012 Department of Orthopedic Surgery Research Day,

2012 Best clinical research paper, "Metastasectomy for skeletal melanoma," Pittsburgh, PA
American Academy of Orthopedic Surgeons Clinician Scientist Development Program, Chicago, IL

ADMINISTRATIVE EXPERIENCE

Administrative Duties

2000-2001 Captain, Dartmouth College Track and Field, Hanover, NH
2011 - 2012 Elected Administrative Chief Resident, Pittsburgh, PA

PROFESSIONAL COMMUNITY ACTIVITIES

2003 Medical Volunteer, Helping Hands, Volunteered for 6 months in urban, rural village, and mobile health clinics. Taught health education and basic science to Nepali school children, Nepal
2007 - 2009 Team Physician, South Park High School, Football, Class AA, South Park, PA
2010 - 2011 Team Physician, Woodland Hills High School, Football, Class AAAA, Pittsburgh, PA

SERVICE AT PREVIOUS INSTITUTIONS

2003 - 2007 Student Director, University of Chicago Pritzker School of Medicine, Washington Park Free Pediatric Clinic. Responsible for operations of the student-run, free pediatric clinic, including recruitment of physician and student volunteers, clinic referrals, community outreach and publicity, and supplies and finance management, Chicago, IL
2004 Volunteer, University of Chicago Pritzker School of Medicine, Keith Edson International Health Fellowship. Spent 3 weeks volunteering at two city hospitals, working closely with Italian physicians in Internal Medicine, and learning about the Italian health care system, Rome, Italy
2004 - 2007 Teaching Assistant, University of Chicago Pritzker School of Medicine, Human Morphology, Biochemistry and Neurobiology
2011 Volunteer, University of Pittsburgh, William F. and Jean Donaldson Travelling Fellowship in Pediatric Orthopedic Surgery. Organized and participated in medical/surgical mission through CURE International with Senior Vice Chairman Morey Moreland, MD, San Pedro Sula, Honduras

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2007 – Alpha Omega Alpha, University of Chicago Chapter
2007 – American Academy of Orthopedic Surgeons Resident/Fellow Member
2013 – AO North America Spine Fellow

PEER-REVIEWED JOURNAL ARTICLES

1. Sun M, Goldin E, Stahl S, Falardeau JL, Kennedy JC, Acierno JS Jr, Bove C, Kaneski CR, Nagle J, Bromley MC, **Colman M**, Schiffmann R, Slaugenhaupt SA. (2000). Mucopolidiosis type IV is caused by mutations in a gene encoding a novel transient receptor potential channel. *Hum Mol Genet*, 9(17), 2471-8.
2. Acierno JS Jr, Kennedy JC, Falardeau JL, Leyne M, Bromley MC, **Colman MW**, Sun M, Bove C, Ashworth LK, Chadwick LH, Schiripo T, Ma S, Goldin E, Schiffmann R, Slaugenhaupt SA. (2001). A physical and transcript map of the MCOLN1 gene region on human chromosome 19p13.3-p13.2. *Genomics*, 73(2), 203-10.
3. **Colman M**, Mass DP, Draganich LF. (2007). Effects of the deep anterior oblique and dorsoradial ligaments on trapeziometacarpal joint stability. *J Hand Surg [Am]*, 32(3), 310-7.
4. Chien AT, **Colman MW**, Ross LF. (2009). Qualitative insights into how pediatric pay-for-performance programs are being designed. *Acad Pediatr*, 9(3), 185-91.
5. **Colman M**, Wright A, Gruen G, Siska P, Pape HC, Tarkin I. (2013). Prolonged operative time increases infection rate in tibial plateau fractures. *Injury*, 44(2), 249-52.
6. **Colman MW**, Ye J, Weiss KR, Goodman MA, McGough RL 3rd. (2013). Does combined open and arthroscopic synovectomy for diffuse PVNS of the knee improve recurrence rates? *Clin Orthop Relat Res*, 471(3), 883-90.
7. Chen AF, Choi LE, **Colman MW**, Goodman MA, Crosssett LS, Tarkin IS, McGough RL. Primary Versus Secondary Distal Femoral Arthroplasty for Treatment of Total Knee Arthroplasty Periprosthetic Femur Fractures. *J Arthroplasty*. Oct;28(9):1580-4

8. **Colman MW**, Choi LE, Chen AF, Crossett LC, Tarkin IS, McGough RM. Proximal femoral replacement in the management of acute periprosthetic fractures of the hip: a competing risks survival analysis. *J Arthroplasty* 2014 Feb;29(2):422-7
9. **Colman MW**, Lozano-Calderon S, Raskin KA, Hornicek FJ, Gebhardt M. Non-neoplastic Soft Tissue Masses That Mimic Sarcoma. *Orthop Clin North Am.* 2014 Apr;45(2):245-255.
10. **Colman MW**, Kirkwood JM, Schott T, Irrgang JJ, Goodman MA, McGough RL 3rd. Does Metastasectomy Improve Survival in Skeletal Melanoma? Epub ahead of print, *Melanoma Research* April 2014

ABSTRACTS PRESENTED AT NATIONAL/INTERNATIONAL MEETINGS

1. **Colman M**, Mass DP, Draganich LF. Effects of the deep anterior oblique and dorsoradial ligaments on trapeziometacarpal joint stability.
 - Podium Presentation, American Academy of Orthopedic Surgeons 2007, San Diego, CA
2. **Colman MW**, Kirkwood JM, Schott T, Irrgang JJ, Goodman MA, McGough RL 3rd. Does Metastasectomy Improve Survival in Skeletal Melanoma?
 - Podium Presentation, Musculoskeletal Tumor Society 2010, Philadelphia, PA
 - Podium Presentation, American Academy of Orthopedic Surgeons 2011, San Diego, CA
 - Abstract Publication, Connective Tissue Oncology Society 2010, Paris, France
3. **Colman MW**, Ye J, Weiss KR, Goodman MA, McGough RL 3rd. Does combined open and arthroscopic synovectomy for diffuse PVNS of the knee improve recurrence rates?
 - Podium Presentation and Symposium Selection, combined Musculoskeletal Tumor Society and Connective Tissue Oncology Society, Chicago, IL, 2011
4. **Colman MW**, Choi LE, Chen AF, Goodman MA, Crossett LC, Tarkin IS, McGough RM. Proximal femoral replacement in the management of acute periprosthetic fractures of the hip.
 - Podium Presentation, American Academy of Orthopedic Surgeons 2012, San Francisco, CA
 - Poster Presentation, Orthopedic Trauma Association, 2012, Minneapolis, MN
 - Poster Presentation, American Association of Hip and Knee Surgeons 2011, Dallas, TX.
5. **Colman MW**, Karim SM, Lozano-Calderon S, Raskin KA, Hornicek FJ, Schwab JS. Quality of life after en-bloc resection of mobile spine tumors.
 - Podium Presentation, Musculoskeletal Tumor Society 2013, San Francisco, CA
 - Podium Presentation, American Academy of Orthopedic Surgeons 2014, New Orleans, LA
6. **Colman MW**, Karim SM, Lozano-Calderon S, Shah V, Hirsch JA, Yoo AJ, Schwab JS, Hornicek FJ, Raskin KA. Percutaneous acetabuloplasty compared with surgery for high grade periacetabular carcinoma metastases.
 - Podium Presentation, American Academy of Orthopedic Surgeons 2014, New Orleans, LA
 - Poster Presentation, Musculoskeletal Tumor Society 2013, San Francisco, CA

OTHER CONFERENCE PROCEEDINGS

National

- 2009 Donaldson WF, **Colman MW**. Complications of cervical fractures in ankylosing spondylitis. Cervical Spine Research Society 2009, Salt Lake City, UT
- 2013 Gebhardt MC, **Colman MW**. Complications of allografts for bone tumor reconstruction. American Academy of Orthopedic Surgeons Annual Meeting Specialty Day Lecture, 2013, Chicago, IL

Regional

- 2012 Gebhardt MC, **Colman MW**. Tumors of the Hand. New England Hand Society Annual Meeting

Grand Rounds Presentations

- 2008 **Colman MW**, Tarkin IT. Current controversies in operative fixation of fractures of the scapula. University of Pittsburgh, Department of Orthopedic Surgery Grand Rounds
- 2009 **Colman MW**, Donaldson WF. Complications of fractures of the axial skeleton in ankylosing spondylitis. University of Pittsburgh, Department of Orthopedic Surgery Grand Rounds
- 2010 **Colman MW**, McGough RM. Surgical management of chordoma and biomechanics of spinal-pelvic fixation. University of Pittsburgh, Department of Orthopedic Surgery Grand Rounds

PENDING PUBLICATIONS

1. **Colman MW**, Karim SM, Delaney TF, Chen YL, Hornicek FJ, Raskin KA, Schwab JS. Quality of life after en-bloc resection of mobile spine tumors. (In submission at The Spine Journal 2014)
2. **Colman MW**, Patel V, Hornicek FJ, Raskin KA, Schwab JS. A review of spinal cord blood supply and implications after total en-bloc spondylectomy. (In submission at JAAOS 2014)
3. **Colman MW**, Karim SM, Lozano-Calderon S, Shah V, Hirsch JA, Yoo AJ, Schwab JS, Hornicek FJ, Raskin KA. Percutaneous acetabuloplasty compared with surgery for high grade periacetabular carcinoma metastases. (In submission at CORR 2014)
5. **Colman MW**, Karim SM, Raskin KA, Schwab JS, Hornicek FJ. Allograft reconstruction of the pelvic ring after type III internal hemipelvectomy. (In preparation 2014)
6. **Colman MW**, Raskin KA, Schwab JS, Hornicek FJ. Symphysiotomy: an old technique applied in a novel way for staged resection of massive intrapelvic sacral tumors. (In preparation 2014)

UNPUBLISHED POSTER PRESENTATIONS

1. **Colman MW**, Blackrick LR, Wright, AT, Byers, KA, Gruen, GS. (2010). *Retention versus removal of hardware in fracture fixation complicated by infection*. Poster session presented at American Academy of Orthopedic Surgeons 2010, New Orleans, LA.
2. Choi LE, **Colman MW**, Chen AF, Goodman MA, Crossett LC, Tarkin IS, McGough RM. (2011). *A comparison of distal femoral replacement and internal fixation in the treatment of periprosthetic fractures after total knee arthroplasty*. Poster session presented at American Association of Hip and Knee Surgeons 2011, Dallas, TX.
3. Lindsay B, **Colman MW**, Goodman MA, Weiss KR, McGough RM. (2011). *Resection vs. intralesional surgery for isolated renal cell metastases*. Poster session presented at Combined Musculoskeletal Tumor Society and Connective Tissue Oncology Society, Chicago, IL.
4. Chen AF, **Colman MW**, Choi LE, Goodman MA, Crossett LC, Tarkin IS, McGough RM. (2012). *Failure of total knee arthroplasty periprosthetic femur fracture fixation using plating techniques*. Poster session presented at American Academy of Orthopedic Surgeons 2012, San Francisco, CA.
5. **Colman MW**, Raskin KA, Schwab JS, Hornicek FJ. *Symphysiotomy: an old technique applied in a novel way for staged resection of massive intrapelvic sacral tumors*. Poster session to be presented at the Musculoskeletal Tumor Society 2013, San Francisco, CA.
6. **Colman MW**, Karim SM, Raskin KA, Schwab JS, Hornicek FJ. *Allograft reconstruction of the pelvic ring after type III internal hemipelvectomy*. Poster session to be presented at the Musculoskeletal Tumor Society 2013, San Francisco, CA.

OTHER SCHOLARLY ACTIVITY

- 2001 **Colman MW**, Glueck DS. Gold nanoclusters with functional surface modifications. Dartmouth College, Molecular Materials Group Research Symposium, Defense of Senior Honors Thesis, Hanover, NH