

Curriculum Vitae

Last Updated: 3/2019

PERSONAL DATA

Matthew W. 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, The Massachusetts General Hospital, Children's Hospital Boston (Adult and Pediatric Musculoskeletal Oncology) Boston, MA
2013 - 2014	Fellow	University of Utah (Orthopedic and Neurosurgical Spine Surgery) Salt Lake City, UT

BOARD CERTIFICATIONS

08/2016 American Board of Orthopaedic Surgery

CURRENT LICENSES/CERTIFICATIONS

2014- Illinois State Medical Board
2014- Indiana State Medical Board
2017- Wisconsin State Medical
Board

PROFESSIONAL EXPERIENCE

Full Time Positions

2014 - Assistant Professor, Rush University Medical Center / Midwest Orthopedics at Rush, Spine Surgery and Musculoskeletal Oncology

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, Best clinical research paper, "Metastasectomy for skeletal melanoma," Pittsburgh, PA
 2012 American Academy of Orthopedic Surgeons Clinician Scientist Development Program, Chicago, IL
 2018 Rush University Spine Fellowship Golden Apple Teaching Award

ADMINISTRATIVE EXPERIENCE

2019- Scientific Program Committee, Cervical Spine Research Society,
 2018- Annual Meeting Committee, Musculoskeletal Tumor Society
 2018- Fellowship Committee, AO Spine North America
 2016- Publications Committee, International Society for the Advancement of Spine Surgery
 2017- Resident Clinical Competency Committee, Rush University Medical College Department of Orthopedic Surgery
 2017- Resident Selection Committee, Rush University Medical College Department of Orthopedic Surgery
 2017- Education Committee, Rush University Medical College Department of Orthopedic Surgery
 2000-2001 Captain, Dartmouth College Track and Field, Hanover, NH
 2011 - 2012 Elected Administrative Chief Resident, Pittsburgh, PA

PROFESSIONAL COMMUNITY ACTIVITIES

2017- Board Member, Little Wish Foundation. Donation sourcing, strategic initiatives, event organization and advisory for pediatric cancer foundation
 2003 Medical Volunteer, Helping Hands Nepal, 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 ACTIVITIES

2014- Peer Reviewer

- Clinical Orthopedics and Related Research
- Journal of Neurosurgery
- Journal of Surgical Oncology
- Journal of the American Academy of Orthopedics Surgeons
- Journal of Pediatric Orthopedics
- International Journal of Spine Surgery

2011 Volunteer, University of Pittsburgh, William F. and Jean Donaldson Travelling Fellowship in Pediatric Orthopedic Surgery, San Pedro Sula, Honduras. Organized and participated in medical/surgical mission through CURE International with Senior Vice Chairman Morey Moreland, MD
 2004 - 2007 Teaching Assistant, University of Chicago Pritzker School of Medicine, Human Morphology, Biochemistry and Neurobiology
 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

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

2007 –	Alpha Omega Alpha, University of Chicago Chapter
2007 –	American Academy of Orthopedic Surgeons
2013 – 2014	AO North America Spine Fellow
2015 –	AO Spine (Teaching Faculty) <ul style="list-style-type: none">• Fellowship committee (2018-2021)
2015 –	North American Spine Society
2015-	International Society for Advancement of Spine Surgery
2017-	Musculoskeletal Tumor Society <ul style="list-style-type: none">• Annual meeting committee (2018-2020)
2017-	Cervical Spine Research Society <ul style="list-style-type: none">• Scientific program committee (2019-2021)

TEACHING AND EDUCATION

2014 –	Rush University Orthopedic Surgery Residency
2014 –	Rush University Spine Fellowship
2016 –	EXPLORE Rush, shadowing / mentoring program for Rush Medical Students
2018 –	AO Spine Faculty

GRANT SUPPORT

2018 –	Colman, MW. CSRS seed/starter grant (\$25,000, 1 year): <i>CT Osteoabsorbptiometry assessment of subchondral bone density predicts intervertebral subsidence in a human cadaver model</i>
2018 –	Basque, BA, Colman MW. <u>Mid America Orthopedic Association</u> (\$4,000) <i>TXA use in degenerative and deformity spine surgery: a prospective comparison of oral and IV formulations</i>
2015-2017	AO Spine Fellowship Grant (Co-investigator)
2019-2021	AO Spine Fellowship Grant (Co-investigator)

CURRENT UNPUBLISHED RESEARCH- PRINCIPLE INVESTIGATOR

1. A randomized prospective trial of anterior lumbar interbody fusion using a novel low density, minimal graft-window porous titanium ingrowth implant without biologic supplementation (enrolling)
2. A randomized prospective trial of plate/cage vs. stand alone devices for one and two level acdf (enrolling)
3. A randomized prospective trial of intraoperative disc preparation feedback during transforaminal interbody fusion (enrolling)
4. A randomized prospective trial of the use and formulation options for tranexamic acid in degenerative and deformity spine surgery (enrolling)
5. Comparison of freehand, computer navigation, and 3D- printed cutting guides in a sawbones-simulated sacro-iliac pelvic resection model (manuscript preparation)
6. A randomized prospective trial of abaloparatide before and after adult thoracolumbar deformity surgery: feasibility, outcomes, and complications (enrolling)
7. Conceptualization and implementation of a porcine-based soft tissue sarcoma resection model in orthopedic resident-level education (laboratory testing)

PEER-REVIEWED JOURNAL ARTICLES

1. **Colman MW**, Baronne LM 2nd, Brodke DS, Woodbury AM, Annis P, Lawrence BD. Perioperative Effects Associated With the Surgical Treatment of Degenerative Spondylolisthesis: Interbody Versus No Interbody. *Clin Spine Surg.* 2018 Oct 16.
2. Narain AS, Hijji FY, Duhancioglu G, Haws BE, Khechen B, Manning BT, **Colman MW**, Singh K. Patient Perceptions of Minimally Invasive Versus Open Spine Surgery. *Clin Spine Surg.* 2018 Apr;31(3):E184-E192.
3. Song KJ, **Colman M**, Myers JA, Seder CW. Transdiaphragmatic Migration of a Spinal Fixation Rod into the Lung. *Lung.* 2018 Mar 5.
4. Narain AS, Hijji FY, Duhancioglu G, Haws BE, Khechen B, Manning BT, **Colman MW**, Singh K. Patient Perceptions of Minimally Invasive Versus Open Spine Surgery. *Clin Spine Surg.* 2018 Feb 20
5. Amelot A, **Colman M**, Loret JE. Vertebral body replacement using patient-specific 3D-printed polymer implants in cervical spondylotic myelopathy: an encouraging preliminary report. *Spine J.* 2018 Feb 2.
6. **Colman M**, Pond J, Bachus K, Lawrence BD, Spiker WR, Brodke DS. Fenestrated Screws Augmented with PMMA Increase the Pull-out Strength of Sacral Pedicle Screws. *Clin Spine Surg.* 2017, April 30 (3); E252-256
7. **Colman MW**, Guss A, Bachus KN, Spiker WR, Lawrence BD, Brodke DS. Fixed-Angle, Posteriorly Connected Anterior Cage Reconstruction Improves Stiffness and Decreases Cancellous Subsidence in a Spondylectomy Model. *Spine* 2016 May;41(9):E519-23.
8. Ahn J, **Colman MW**. En Bloc Spondylectomy for Primary Tumors and Metastatic Disease: A Review of Reported Outcomes. *Contemporary Spine Surgery.* April 2016 Vol. 17 (14)
9. Karim SM, **Colman MC**, Cipriani NA, Nielsen GP, Schwab JH, Hornicek FJ. Surgical management of Gorham-Stout disease of the pelvis refractory to medical and radiation therapy. *Am J Orthop (Belle Mead NJ).* 2015 Nov;44(11):E473-7.
10. **Colman MW**, Hornicek FJ, Schwab JH. Spinal Cord Blood Supply and Its Surgical Implications. *J Am Acad Orthop Surg.* 2015 Oct;23(10):581-91.
11. **Colman MW**, Karim SM, Hirsch JA, Yoo AJ, Schwab JH, Hornicek FJ, Raskin KA. Percutaneous Acetabuloplasty Compared With Open Reconstruction for Extensive Periacetabular Carcinoma Metastases. *J Arthroplasty.* 2015 Sep;30(9):1586-91.
12. **Colman MW**, Karim SM, Lozano-Calderon SA, Pedlow FX, Raskin KA, Hornicek FJ, Schwab JH. Quality of life after en bloc resection of tumors in the mobile spine. *Spine J.* 2015 Aug 1;15(8):1728-37.
13. Karim SM, **Colman MW**, Lozano-Calderón SA, Raskin KA, Schwab JH, Hornicek FJ. What are the functional results and complications from allograft reconstruction after partial hemipelvectomy of the pubis? *Clin Orthop Relat Res.* 2015 Apr;473(4):1442-8.
14. **Colman M**, Choi L, Chen A, Crossett L, Tarkin I, McGough R. 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.
15. Lozano-Calderon SA, **Colman MW**, Raskin KA, Hornicek FJ, Gebhardt M. Use of bisphosphonates in orthopedic surgery: pearls and pitfalls. *Orthop Clin North Am.* 2014 Jul;45(3):403-16.
16. **Colman MW**, Kirkwood JM, Schott T, Goodman MA, McGough RL 3rd. Does metastasectomy improve survival in skeletal melanoma? *Melanoma Res.* 2014 Aug;24(4):354-
17. **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):245-55.
18. **Colman M**, Wright A, Gruen G, Siska P, Pape HC, Tarkin I. Prolonged operative time increases infection rate in tibial plateau fractures. *Injury.* 2013 Feb;44(2):249-52.
19. Chen AF, Choi LE, **Colman MW**, Goodman MA, Crossett LS, Tarkin IS, McGough RL. Primary versus secondary distal femoral arthroplasty for treatment of total knee arthroplasty periprosthetic femur fractures. *J Arthroplasty.* 2013 Oct;28(9):1580-4. doi:

20. **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? *Clin Orthop Relat Res*. 2013 Mar;471(3):883-90.
21. Chien AT, **Colman MW**, Ross LF. Qualitative insights into how pediatric pay-for-performance programs are being designed. *Acad Pediatr*. 2009 May-Jun;9(3):185-91.
22. **Colman M**, Mass DP, Draganich LF. Effects of the deep anterior oblique and dorsoradial ligaments on trapeziometacarpal joint stability. *J Hand Surg Am*. 2007 Mar;32(3):310-7.
23. 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. A physical and transcript map of the MCOLN1 gene region on human chromosome 19p13.3-p13.2. *Genomics*. 2001 Apr 15;73(2):203-10.
24. 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. Mucopolidosis type IV is caused by mutations in a gene encoding a novel transient receptor potential channel. *Hum Mol Genet*. 2000 Oct 12;9(17):2471-8.

BOOK EDITORIAL / CHAPTER AUTHORSHIP

1. **Colman MW** (Ed), Singh, K (Ed). Modern Surgical Oncology of the Spine. Springer 2020 (in production)
2. **Colman MW**. Tumors of the Hip and Pelvis. Chapman's Comprehensive Orthopedic Surgery, 4th ed. Publication pending, 2017. Ed. Chapman, MW. Jaypee Brothers Medical Publishing.
3. Gitelis S, Blank A, **Colman MW**, McDonald D, Cipriano C, Fillingham Y. Limb salvage principles. Chapman's Comprehensive Orthopedic Surgery, 4th ed. Publication pending, 2017. Ed. Chapman, MW. Jaypee Brothers Medical Publishing.
4. **Colman MW**, Schwab, JH. Current Concepts in Primary Benign, Primary Malignant, and Metastatic Tumors of the Spine. In: Orthopedic Knowledge Update 12. Ed. Grauer, JH. American Academy of Orthopedic Surgeons 2017.
5. **Colman MW**, Spiker WR. Metastatic Spine Disease. In: Metastatic Bone Disease. Ed. Randall RL. Springer 2016

NATIONAL/INTERNATIONAL PODIUM PRESENTATIONS

1. Khan J, Michalski J, Basques B, Louie P, Chen O, Hayani Z, Kalish C, Elboghdady I, An H, **Colman M**. Do Clinical and Radiographic Outcomes Differ between Diabetics and Non-Diabetics following Posterior Lumbar Spinal Fusion? Lumbar Spine Research Society Annual Meeting. Chicago, IL. 2019 Apr 5.
2. Mormol J, Basques B, Alter K, Khan J, Louie P, Goldberg E, **Colman M**, An H. Risk Factors Associated with Development of Urinary Retention Following Posterior Lumbar Spinal Fusion. Lumbar Spine Research Society Annual Meeting. Chicago, IL. 2019 Apr 4-5.
3. Khan J, Basques B, Gosse J, Hayani Z, Grewal G, Hwang J, Tchalukov K, Derman P, **Colman M**, An H. Does the Number of Patient-Reported Allergies Impact Clinical Outcomes after Lumbar Spinal Fusion? Lumbar Spine Research Society Annual Meeting. Chicago, IL. 2019 Apr 4.
4. Khan J, Basques B, Kunze K, Grewal G, Hong Y, Pardo C, Louie P, **Colman M**, An H. Does Obesity Impact Clinical Outcomes and Lumbar Sagittal Alignment after a Posterior Lumbar Spine Fusion? Lumbar Spine Research Society Annual Meeting. Chicago, IL. 2019 Apr 5.
5. Khan J, Basques B, Vetter C, Kunze K, Pardo C, Chen O, Mormol J, An H, **Colman M**. "Equivalent Outcomes in Patients Undergoing Open Posterior Lumbar Fusion With and Without a History of Prior Lumbar Laminectomy". International Society for the Advancement of Spine Surgery. Anaheim, CA. 2019 April 5.
6. Basques B, Khan J, Chen O, Michalski J, Hayani Z, Hwang J, Kalish C, An H, **Colman M**. "Do Clinical and Radiographic Outcomes Differ Between Diabetics and Non-Diabetics following Posterior Lumbar Spinal Fusion?" International Society for the Advancement of Spine Surgery. Anaheim, CA. 2019 April 5.

7. Khan J, Basques B, Hong Y, Gosse J, Alter K, Banks L, Chitneni A, **Colman M**, An H. "Duration of Preoperative Symptoms Does Not Affect Clinical Outcome after Lumbar Arthrodesis". International Society for the Advancement of Spine Surgery. Anaheim, CA. 2019 April 5.
8. Basques B, Louie P, Khan J, Chen O, Michalski J, Kunze K, **Colman M**, Samartzis D, An H. "Discharge to a Facility Following Posterior Lumbar Fusion: Risk Factors and the Development of a Predictive Scoring System". International Society for the Advancement of Spine Surgery. Anaheim, CA. 2019. April 5.
9. Khan J, Basques B, Hong Y, Gosse J, Chen O, Banks L, Chitneni A, **Colman M**, An H. "Patients with Isolated Back Pain at the Time of Posterior Lumbar Fusion Experience Similar Clinical Improvement to Patients with Leg Pain with or without Back Pain". International Society for the Advancement of Spine Surgery. Anaheim, CA. 2019 April 5.
10. Khan J, Basques B, Hayani Z, Pardo C, Banks L, Hong Y, Tchalukov K, **Colman M**, An H. "Does Obesity Impact Clinical Outcomes and Lumbar Sagittal Alignment after a Posterior Lumbar Spine Fusion?" International Society for the Advancement of Spine Surgery. Anaheim, CA. 2019 April 5.
11. Basques B, Khan J, Kunze K, Chen I, Gosse J, Friedman L, Maschhoff C, **Colman M**, An H. "Do Clinical Outcomes and Sagittal Parameters Differ Between Transforaminal Lumbar Interbody Fusion and Posterolateral Lumbar Fusion for Degenerative Spondylolisthesis?" International Society for the Advancement of Spine Surgery. Anaheim, CA. 2019 April 5.
12. Basques B, Nolte M, Khan J, Kadakia K, Gosse J, Mormol J, Derman P, **Colman M**, An H. "Patients with Predominantly Back Pain at the Time of Posterior Lumbar Fusion Experience Similar Clinical Improvement To Patients With Predominantly Leg Pain". International Society for the Advancement of Spine Surgery. Anaheim, CA. 2019 April 5.
13. **Colman, MW**. Degenerative spondylolisthesis: open technique with or without interbody is the best treatment option. North American Spine Society Evidence and Technology Spine Summit 2019
14. **Colman, MW**. Esophageal perforation in cervical spine surgery: incidence, etiology, and management . North American Spine Society Evidence and Technology Spine Summit 2019
15. **Colman, MW**, Singh K. Lasers in Spine Surgery. North American Spine Society Evidence and Technology Spine Summit 2019
16. **Colman, MW**, Sweeney K, Robichaud H, Nystrom L, Balach T. Patient Specific 3D Cutting Guides Provide Similar Cut Accuracy And Superior Far-Side Cut Penetration Accuracy Compared With Computer Navigation Or Freehand Technique In An Idealized Sawbones Pelvic Resection Model. Musculoskeletal Tumor Society, 2018 (New York, NY)
17. **Colman, MW**. En Bloc Spondylectomy: technical tips and tricks. Rush Alumni Spine Symposium 2018
18. **Colman, MW**. New and evolving treatments in the management of spine tumors. Spine Technology and Education Group International Meeting, 2018
19. **Colman, MW**. Incorporating new technology into practice. North American Spine Society Evidence and Technology Spine Summit 2018
20. **Colman, MW**. Staying out of trouble in spine tumors. K2M Meeting of the Minds, 2018
21. **Colman MW**, Innovative and evolving treatments for metastatic spine tumors. Instructional Course Lecture, American Academy of Orthopedic Surgeons, 2019 (Las Vegas), 2018 (New Orleans), 2017 (San Diego)
22. **Colman MW**, Osteotomy level selection and technical pearls. Ohio State University, Future Leaders Deformity Workshop, 2017
23. **Colman, MW**. Point/Counterpoint: ACDF is the most reliable operation for two level cervical disease. Spine Technology and Education Group International Meeting, 2017
24. **Colman, MW**. How we treat spine tumors differently today as compared to 10 years ago. Spine Technology and Education Group International Meeting, 2017
25. **Colman MW**, Massel DH, Mayo BC, Long WW, Modi KD, Singh K. Cervical sagittal imbalance is associated with a higher rate of reoperation for adjacent segment disease following ACDF. Cervical Spine Research Society 2016 (Toronto)
26. **Colman, MW**. Malignant Primary and Secondary Spine Tumors. AO Spine Research Forum, 2016

27. **Colman, MW.** Point/Counterpoint: Don't throw away ACDF. Spine Technology and Education Group International Meeting, 2016
28. **Colman, MW.** Point/Counterpoint: Current concepts in lumbar interbody fixation. Spine Technology and Education Group International Meeting, 2016
29. **Colman MW.** Malignant and Benign Tumor Review. American Society for Surgery of the Hand / American Academy of Orthopedic Surgeons Annual Board Review, 2016.
30. **Colman, MW.** What's new in Spine Tumors. Spine Technology and Education Group International Meeting, 2015
31. **Colman, MW.** The ABCs of Spinal Deformity: What's really important? Spine Technology and Education Group International Meeting, 2015
32. **Colman, MW.** Outcomes data in spine surgery: What to measure. Rush Alumni Spine Symposium 2016
33. **Colman MW, Spiker WR, Lawrence BD, Brodke DS.** Interbody vs. no interbody for degenerative spondylolisthesis: is there a difference in fusion or quality of life? Lumbar Spine Research Society, 2015
34. **Colman MW, Spiker WR, Lawrence BD, Daubs MD, Curry PC, Brodke DS.** Outcomes after acute proximal junctional failure in adult spinal deformity. Lumbar Spine Research Society, 2015
35. **Colman MW.** Point/Counterpoint: Epidemiology of degenerative scoliosis. Lumbar Spine Research Society 2015.
36. **Colman MW.** Point/Counterpoint: Open traditional approach to degenerative scoliosis. Lumbar Spine Research Society 2015.
37. **Colman MW.** Malignant and Benign Tumor Review. American Society for Surgery of the Hand / American Academy of Orthopedic Surgeons Annual Board Review, 2015.
38. **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. American Academy of Orthopedic Surgeons 2014, New Orleans, LA; Musculoskeletal Tumor Society 2013, San Francisco, CA
39. Gebhardt MC, **Colman MW.** Tumors of the Hand. New England Hand Society Annual Meeting 2013
40. Gebhardt MC, **Colman MW.** Complications of allografts for bone tumor reconstruction. American Academy of Orthopedic Surgeons Annual Meeting Specialty Day Lecture, 2013
41. **Colman MW, Karim SM, Lozano-Calderon S, Raskin KA, Hornicek FJ, Schwab JS.** Quality of life after en-bloc resection of mobile spine tumors. Musculoskeletal Tumor Society 2013, San Francisco, CA; American Academy of Orthopedic Surgeons 2014, New Orleans, LA
42. **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. American Academy of Orthopedic Surgeons 2012, San Francisco, CA
43. **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? Symposium Selection, combined Musculoskeletal Tumor Society and Connective Tissue Oncology Society, Chicago, IL, 2011
44. **Colman MW, Kirkwood JM, Schott T, Irrgang JJ, Goodman MA, McGough RL 3rd.** Does Metastasectomy Improve Survival in Skeletal Melanoma? Musculoskeletal Tumor Society 2010, Philadelphia, PA; American Academy of Orthopedic Surgeons 2011, San Diego, CA
45. Donaldson WF, **Colman MW.** Complications of cervical fractures in ankylosing spondylitis. Cervical Spine Research Society 2009
46. **Colman M, Mass DP, Draganich LF.** Effects of the deep anterior oblique and dorsoradial ligaments on trapeziometacarpal joint stability. American Academy of Orthopedic Surgeons 2007, San Diego, CA

LOCAL/REGIONAL PRESENTATIONS

1. Colman MW. Cutting edge modalities in metastatic spine disease. Rush University Medical College Medical Oncology Grand Rounds 2019

2. Colman MW. Management of spine tumors. Advocate Health system-wide combined neurosurgery and orthopedic spine surgery Grand Rounds 2018
3. Colman MW. Benign Bone Tumors. Rush University Medical College Surgical Grand Rounds 2017
4. Colman MW. Subaxial Cervical Spine Trauma. Rush University Medical College Surgical Grand Rounds 2016
5. Colman MW. Malignant Bone Tumors. Rush University Medical College Surgical Grand Rounds 2016
6. Colman MW. Current Concepts in Primary Spine Tumors. Rush University Medical College Medical Oncology Grand Rounds 2015
7. Colman MW, McGough RM. Surgical management of chordoma and biomechanics of spinal-pelvic fixation. University of Pittsburgh, Department of Orthopedic Surgery Grand Rounds 2010
8. Colman MW, Donaldson WF. Complications of fractures of the axial skeleton in ankylosing spondylitis. University of Pittsburgh, Department of Orthopedic Surgery Grand Rounds 2009
9. Colman MW, Tarkin IT. Current controversies in operative fixation of fractures of the scapula. University of Pittsburgh, Department of Orthopedic Surgery Grand Rounds 2008
10. Colman MW, Glueck DS. Gold nanoclusters with functional surface modifications. Dartmouth College, Molecular Materials Group Research Symposium, Defense of Senior Honors Thesis, Hanover, NH, 2001

POSTER PRESENTATIONS

1. Colman MW, Guss A, Bachus KN, Spiker WR, Lawrence BD, Brodke DS. Fixed-Angle, Posteriorly Connected Anterior Cage Reconstruction Improves Stiffness and Decreases Cancellous Subsidence in a Spondylectomy Model. Lumbar Spine Research Society 2015.
2. Colman MW, Karim SM, Raskin KA, Schwab JS, Hornicek FJ. Allograft reconstruction of the pelvic ring after type III internal hemipelvectomy. Musculoskeletal Tumor Society 2013
3. 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. Musculoskeletal Tumor Society 2013
4. Chen AF, Colman MW, Choi LE, Goodman MA, Crossett LC, Tarkin IS, McGough RM. Failure of total knee arthroplasty periprosthetic femur fracture fixation using plating techniques. American Academy of Orthopedic Surgeons 2012
5. Lindsay B, Colman MW, Goodman MA, Weiss KR, McGough RM. Resection vs. intralesional surgery for isolated renal cell metastases. Combined Musculoskeletal Tumor Society and Connective Tissue Oncology Society 2011
6. 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. Orthopedic Trauma Association, 2012, Minneapolis, MN; American Association of Hip and Knee Surgeons 2011, Dallas, TX.
7. Choi LE, Colman MW, Chen AF, Goodman MA, Crossett LC, Tarkin IS, McGough RM. A comparison of distal femoral replacement and internal fixation in the treatment of periprosthetic fractures after total knee arthroplasty. American Association of Hip and Knee Surgeons 2011
8. Colman MW, Blackrick LR, Wright, AT, Byers, KA, Gruen, GS. Retention versus removal of hardware in fracture fixation complicated by infection. American Academy of Orthopedic Surgeons 2010
9. Colman MW, Kirkwood JM, Schott T, Irrgang JJ, Goodman MA, McGough RL 3rd. Does Metastasectomy Improve Survival in Skeletal Melanoma? Connective Tissue Oncology Society 2010, Paris, France