

Edward Y. Cheng, M.D.
Mairs Family Professor
Department of Orthopedic Surgery
University of Minnesota

PROFESSIONAL ADDRESS

University of Minnesota
Department of Orthopedic Surgery
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CURRENT POSITIONS

1. Professor, Mairs Family Endowed Chair, Orthopedic Surgery, University of Minnesota
2. Head, Section of Adult Reconstructive and Tumor Surgery
3. Disease Team Lead, Bone and Soft Tissue Service Line, Masonic Cancer Center, University of Minnesota
4. Lead, Musculoskeletal Service Line, Acute care, M Health-Fairview Health system
5. Director, Adult Reconstruction Fellowship
6. Chairperson, US-FDA Orthopaedic and Rehabilitation Devices Panel of the Medical Devices Advisory Committee

IDENTIFYING INFORMATION

Education

Degree	Institution	Date Degree Granted
B.S.	Northwestern University Evanston, IL	1981
M.D.	Northwestern University Medical School Chicago, IL	1983
Internship General Surgery	Northwestern University McGaw Medical Center	1984
Residency General Surgery	Northwestern University McGaw Medical Center	1985
Research Fellowship Orthopaedic Oncology	Massachusetts General Hospital	1986
Residency Combined Orthopaedics and Surgery Program	Harvard University (Brigham and Women's Hospital/Massachusetts General Hospital) Boston, MA	1988
Chief Resident Orthopaedic Surgery	Beth Israel Hospital, Boston, MA	1989
Fellowship Orthopaedic Oncology	Massachusetts General Hospital	1990
Fellowship Pediatric Orthopaedic Oncology	Boston Children's Hospital Medical Center	1990

Licenses

State of Minnesota	1990-present
State of California (inactive)	1989
Commonwealth of Massachusetts (inactive)	1986
State of Illinois (inactive)	1984

Certifications

American Board of Orthopaedic Surgery	2020 (recertification)
American Board of Orthopaedic Surgery	2012 (recertification)
American Board of Orthopaedic Surgery	2000 (recertification)
American Board of Orthopaedic Surgery	1992
National Board of Medical Examiners	1984

Academic Appointments

Distinguished Professor, Dalian University, China	2017-2020
University of Minnesota Medical School	
Department of Orthopaedic Surgery	1990-present
Mairs Family Chair in Musculoskeletal Oncology	2004-present
Professor	2003-present
Associate Professor	1997-2003
Assistant Professor	1990-1997
Harvard University Medical School	
Boston, MA	1985-1990
Assistant Professor	1989-1990
Clinical Fellow	1985-1988
Massachusetts General Hospital, Bone Bank	
Assistant Medical Director	1989-1990

Academic Administrative Appointments

Head, Section of Adult Reconstruction and Tumor	2021-present
Department Orthopedic Surgery, University of Minnesota	
Disease Team Lead, Bone and Soft Tissue Service Line	2021-present
Masonic Cancer Center, University of Minnesota	
Director, Adult Reconstruction Fellowship	2004-present
University of Minnesota	

Clinical / Hospital Appointments

Voting Staff	2015-present
Methodist Hospital	
Affiliate	2015-present
Children's Hospitals and Clinics, Minneapolis	
Chief, Orthopaedic Surgery Service	1999-2007
University of Minnesota Medical Center, Fairview	
Chief-Elect, Orthopaedic Surgery Service	1998-1999
University of Minnesota Medical Center, Fairview	
Staff Surgeon, Orthopaedic Surgery Service	1997-present
University of Minnesota Medical Center, Fairview	
Staff Physician, University of Minnesota Physicians, Orthopaedic Surgery Clinic	1990-present
University of Minnesota Hospital and Clinic	
Consultant Staff	1991
Minneapolis Veterans Medical Center	
Staff Physician	1989
Beth Israel Hospital, Boston, MA	
Affiliate Staff	1986

Faulkner Hospital, Boston, MA

Consulting Positions

US-FDA, Chairperson of the Orthopaedic and Rehabilitation Devices Panel of the Medical Devices Advisory Committee	2024/09 – 2028/08
Daiichi-Sankyo, Inc.	2019
Epizyme, Inc.	2019
BoneSupport AB	2014
Aastrom Biosciences, Inc.	2006
Biomet, Inc.	2006-2008, 2011-2012
DePuy, Johnson and Johnson, Inc.	2000-2001
Food and Drug Administration – US FDA	1998-2001
NIH Mock Review	4/20/2022

Membership and Offices in Professional Organizations

Musculoskeletal Transplant Foundation – Medical Board of Trustees	2006-present
Association Research Circulation Osseous (ARCO) International, Past-Present	2021
Association Research Circulation Osseous (ARCO) International, President	2019-2020
Association Research Circulation Osseous (ARCO) International, President Elect	2018-2019
Association Research Circulation Osseous (ARCO), Secretary-Treasurer, North America	2015-2017
Association Research Circulation Osseous, Vice President, North America	2007-2015
Children’s Oncology Group	2010, 2020-present
American Orthopaedic Association	2001-present
American College of Surgeons Oncology Group	2000-present
National Osteonecrosis Foundation	1997-present
Musculoskeletal Tumor Society	
Secretary	2008-2009
Treasurer	2009-2010
President-elect	2010-2011
President	2011-2012
American Association of Hip and Knee Surgeons	1994-present
American Academy of Orthopaedic Surgeons	1994-present
International Society of Limb Salvage	1993-present
Hennepin County Medical Society	1992-present
Minnesota Orthopaedic Society	1992-present
Minnesota Medical Society	
American Cancer Society	1991-present
Christian Medical & Dental Society	1991-present
American Medical Association	1986-1995
Massachusetts Medical Society	1986-1994
Norfolk County District Medical Society	1986-1990
Phi Rho Sigma Medical Society	1979-present

Visiting Professorships or Visiting Scholar Positions

Zhongsan Hospital of Dalian University, Dalian, China	2017
Cincinnati Children’s Hospital Medical Center, Department of Orthopaedic Surgery	2013
Seoul National University, Korea, Department of Orthopaedics	2010
Okayama University, Okayama Japan, Department of Orthopaedics	2009
Marshfield Clinic, Department of Orthopaedics	1993

HONORS AND AWARDS FOR RESEARCH WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

University of Minnesota

University of Minnesota, Mairs Family Endowed Chair in Orthopaedic Surgery	2004
University of Minnesota Hospitals and Clinics, Physician Recognition Award	1993

M Physicians

M Physicians Clinical Excellence Honors Program (honoree)	2023
M Physicians Clinical Excellence Recognition program	2021

External Sources

<i>Avant-Garde</i> Orthopedic Research All-Star in the Top 4-5% of Hip & Knee Research	2024
Distinguished Professor Appointment, Affiliated Zhongshan Hospital, Dalian University, China	2017-2020
<i>Castle Connolly Top Doctor</i>	2020, 2021, 2022
<i>Castle Connolly Top Doctor – Top Cancer Specialist</i>	2019
<i>Guide to America’s Top Surgeons</i>	2016
<i>International Association of Orthopaedic Surgeons - Top Doctor</i>	2017, 2016, 2015
<i>Best Doctors</i>	2016, 2015
<i>Newsweek Health</i> , Top Cancer Doctors	2015
<i>Mpls St. Paul Magazine</i> , Top Doctors	2004-2006 2012-2024
<i>America’s Top Doctors</i>	2015, 2014, 2013, 2012, 2011, 2010
<i>America’s Top Doctors for Cancer</i>	2015, 2014, 2012, 2011, 2010, 2009, 2007, 2006, 2005
<i>America’s Most Honored Doctors – Top 1%</i>	2022
<i>Minnesota Monthly</i> , Top Doctors for Women Award	2011
<i>Minnesota Monthly</i> , Top Doctors	2020-2024
<i>America’s Top Physicians</i> , Consumers’ Research Council of America	2004
United States Food and Drug Administration, Advisory Committee Service Award	2001
American Cancer Society Clinical Oncology Fellowship Award	1989-1990
Bernard Baruch National Medical Student Essay Contest, Medalist	1981
Honors Program in Medical Education, Northwestern Univ Medical School	1979-1983

RESEARCH AND SCHOLARSHIP

Grants and Contracts

External Sources (federal {NIH, NSF, DEO, etc.} or state grants, foundation awards, etc.)

1. Smith & Nephew, Adult Reconstructive Surgery Fellowship Grant, 2024/2025, \$10,000. 8/1/2024 to 07/31/2025.
2. OMeGA Medical Grant, Adult Reconstructive Surgery Fellowship Grant, 2023/2024, \$15,000. 8/1/2023 to 07/31/2024.
3. Smith & Nephew, Adult Reconstructive Surgery Fellowship Grant, 2023/2024, \$10,000. 8/1/2023 to 07/31/2024.
4. **Co-Investigator, Cheng EY.** R01 grant, NIH# R01 AR081877-01, \$2,693,094.00, 3/1/2023 – 3/1/2028. “Early Detection and Monitoring of Osteonecrosis of the Femoral Head.” Casey Johnson, PhD, PI. Major Goals: The major goal of this project is to investigate the sensitivity of quantitative, non-contrast-enhanced MRI techniques to detect acute ischemic injury to the femoral head to enable better treatment of osteonecrosis.
5. American Association of Hip and Knee Surgeons (AAHKS) Fellowship Education and Innovation Program Grant supported by Zimmer Biomet. \$20,000. 8/01/2022 to 7/31/2023

6. OMeGA, Adult Reconstructive Surgery Fellowship Grant, 2022/2023, \$22,000, 8/1/2022 to 7/31/2023.
7. OMeGA, Adult Reconstructive Surgery Fellowship Grant, 2021/2022, \$36,000, 8/1/2021 to 7/31/2022.
8. Smith & Nephew, Adult Reconstructive Surgery Fellowship Grant, 2021/2022, \$15,000. 8/01/2021 to 7/31/2022.
9. **Co-Investigator, Cheng EY.** R56 grant, NIH# 1R56AR078315-01. \$541,108.00, 9/22/2021-8/31/2022. “Early Detection and Monitoring of Osteonecrosis of the Femoral Head.” Casey Johnson, PhD, PI. Major Goals: The major goal of this project is to investigate the sensitivity of quantitative, non-contrast-enhanced MRI techniques to detect acute ischemic injury to the femoral head to enable better treatment of osteonecrosis.
10. **Co-Investigator, Cheng EY.** “Defining the Immune Landscape of Osteosarcoma at the Single-Cell Level.” Funding source: Children’s Cancer Research Fund. Amount: \$99,994. Time period : August 2021-2023
11. **Co-Investigator, Cheng, EY,** PI Aparicio, C. Bioinspired Acellular Strategies to Optimize the Skin-Implant Interface of Osseointegrated Devices. **Department of Defense office of the Congressionally Directed Medical Research Programs (CDMRP).** Total award: \$734,000. 07/01/2020 - 06/30/2023.
12. Smith & Nephew, Adult Reconstructive Surgery Fellowship Grant, 2020/2021, \$15,000, 8/1/2020 to 7/31/2021.
13. OMeGA, Adult Reconstructive Surgery Fellowship Grant, 2020/2021, \$65,000, 8/1/2020 to 7/31/2021.
14. OMeGA, Adult Reconstructive Surgery Fellowship Grant, 2019/2020, \$27,500, 8/1/2019 to 7/31/2020.
15. Smith & Nephew 2019/2020, \$20,000, 8/1/2019 to 7/31/2020.
16. OMeGA, Adult Reconstructive Surgery Fellowship Grant, 2018-2019, \$20,000. 8/1/2018 to 7/31/2019.
17. Smith & Nephew Fellowship Grant. \$20,000. 8/1/2018 to 7/31/2019.
18. Retrospective and Prospective Comparison of Prognostic Transcriptional Biomarkers in Osteosarcoma using NanoString RNA profiling. Rein in Sarcoma Foundation. \$49,000. 2018
19. NIH R34 Planning Grant (submitted 11/2017). Pending
20. Smith & Nephew Fellowship Grants. \$30,000. 8/1/2017 to 7/31/2018.
21. OMeGA Medical Grant – Fellowship Grant. \$30,000, 2017-2018.
22. **Principal Investigator, Cheng, EY.** A Phase II randomized, double-blind, placebo controlled student of MCS110 for treatment of pigmented villonodular synovitis (PVNS). Novartis Pharma AG-CON000000037316-3000. Sponsor Award #MCS110X2201. \$445,120. 11/01/2011 – 04/30/2019.
23. Smith & Nephew – Fellowship Grant, \$15,000, 08/01/2017 to 07/31/2018.
24. OMeGA Medical Grant – Fellowship Grant, \$27,000, 2016-2017.
25. **Cheng EY,** Skubitz K, Froelich J, Manivel JC, Weigel B, Dusenbery K, Cho C, Ogilvie C, Clohisy D. The use of FDG-PET CT metabolic response to increase the therapeutic ratio of treatment for high grade, large soft tissue sarcomas. Karen Wyckoff Rein in Sarcoma Foundation, 2015, \$29,000
26. OMeGA Medical Grant Fellowship Grant. \$38,000, 2015-2016

27. Prophylactic Antibiotic Regimens In Tumor Surgery (PARITY). Sponsor: McMaster University. 2/18/2014 – 03/30/2021.
28. OMeGA Medical Grant Fellowship Grant. \$54,000, 2014-2015
29. OMeGA Medical Grant Fellowship Grant, \$33,000, 2013-2014.
30. **Cheng EY.** Novartis Pharma AG. A phase II, randomized, double-blinded, randomized placebo controlled study of MCS1110 for treatment of PVNS. A Multicenter Prospective Clinical Trial. **Principal Investigator** of multicenter trial and local site PI. Novartis, November 1, 2011 through 2016, \$85,208
31. OMeGA Medical Grants Fellowship Grants. 2013, \$31,500
32. OREF Fellowship Grant. 2012, \$46,702
33. Skubitz A, Manivel C, Cheng EY, Skubitz K, Boylan K, Vogel R. Identification of Potential Therapeutic Targets for Sarcomas: Characterization of Cancer Stem Cell Markers on Sarcoma Cell Lines and Sarcoma Tissues. Karen Wyckoff Rein in Sarcoma Foundation, \$33,230.
34. OREF Fellowship Grant. 2011, \$75,000
35. Skubitz A., Manivel C, Cheng EY, Skubitz K, Schmechel S. Quantification of four biomarkers that demonstrate clinical correlations in aggressive fibromatosis. Karen Wyckoff Rein in Sarcoma Foundation, March 2011, \$21,366
36. Skubitz A, Cheng EY, Manivel C, Skubitz K, Boylan K, Isakson R. Characterization of sarcoma stem cells and their role in chemoresistance and relapse: Biologic correlate of “Study of FDG-PET/CT Imaging in Predicting Disease-Free Survival of Patients Receiving Neoadjuvant Chemotherapy for Soft Tissue Sarcoma.” **Collaborator.** Karen Wyckoff Rein in Sarcoma Foundation, April 2010, \$45,000
37. Cheng E.Y. Patient Education Video Series, Pediatric Amputation. **Principal Investigator.** Karen Wyckoff Rein in Sarcoma Foundation, April 2010, \$18,000
38. OREF Fellowship Grant. 2010, \$72,000
39. Cheng EY. Multi-center National Clinical Trial. 2009NTCG025. Comparing CT-Based Structural Rigidity Analysis to Current Clinical and Radiological Methods for Selecting Treatment Options for Patients with Skeletal Metastasis. **Site- PI.**
40. Skubitz A, Cheng EY, Manivel C, Skubitz K. Clinical Correlations Associated with Genes Upregulated in Fibromatosis. **Collaborator.** Karen Wyckoff Rein in Sarcoma Foundation, January 2009, \$34,500
41. OMEGA Fellowship Grant. 2009, \$32,300.
42. Cheng EY. Phase II trial of FDG - Positron Emission Tomography (PET-CT) imaging of soft tissue sarcomas for assessment of response to neoadjuvant Ifosfamide / Adriamycin. NCI protocol# UMN-2005LS080. **Principal Investigator.** Karen Wyckoff Rein in Sarcoma Foundation, renewal January 2009, \$20,000
43. Cheng EY. Patient Education Video Series, Adult Amputation. **Principal Investigator.** Karen Wyckoff Rein in Sarcoma Foundation, January 2008, \$7,200
44. Cheng EY. Multi-center Clinical Trial of the Application of Tissue Repair Cell (TRC) Therapy of Osteonecrosis of the Femoral Head. Protocol ABI-55-0705-1. **Site PI.** Aastrom Biosciences, September 2007, \$186,180
45. Cheng EY. Biomet, Inc. Unrestricted research grant. May 2007, \$30,000
46. Cheng EY. Phase II trial of FDG - Positron Emission Tomography (PET-CT) imaging of soft tissue sarcomas for assessment of response to neoadjuvant Ifosfamide / Adriamycin. NCI protocol# UMN-2005LS080. **Principal Investigator.** Karen Wyckoff Rein in Sarcoma Foundation, activated April 2006, \$82,809

47. Cheng EY. Biomet, Inc. Unrestricted research grant. July 2005, \$30,000 annually
48. Cheng EY. Educational grant for adult reconstruction fellowship. Wright Medical Technology, July 2005-June 2008, \$225,000
49. Cheng EY. Smith and Nephew Oxinium Head (SNOH) Study: A Multicenter Randomized Study. Local site investigator. Saleh, K., Principal Investigator.
50. Cheng EY. Phase II trial of Positron Emission Tomography (PET) imaging of soft tissue sarcomas for assessment of response to neoadjuvant treatment. **Study Chairman**. American College of Radiology Imaging Network (ACRIN), Philadelphia, 2004. Approved by ACRIN executive committee
51. Cheng EY. A Phase II Trial of Intralesional Resection for Low Grade Chondrosarcoma of Bone. American College of Surgeons Oncology Group Study #Z9041. Principal Investigator. Joint study as **co-PI** with Southwest Oncology Group Study #S0344, R Lor Randall, Principal Investigator. Activated December 2004.
52. Cheng EY. Osteoporosis Bone Biopsy histomorphometry study. Performed bone biopsies for long term study evaluating effects of Alendronate on skeleton using histomorphometry. Merck Sharp & Dohme. Results in: Recker R, Ensrud K, Diem S, Cheng E, Bare S, Masarachia P, Roschger P, Fratzl P, Klaushofer K, Lombardi A, Kimmel D. Normal bone histomorphometry and 3D microarchitecture after 10 years Alendronate treatment of postmenopausal women. J Bone Miner Res. 2004;19(SUPPL 1):S45.
53. Cheng EY. Integration of Pediatric and Bone and Soft Tissue sarcoma databases. University of Minnesota Cancer Center. **Principal Investigator**. Karen Wyckoff Rein in Sarcoma Foundation, 2003, \$5500
54. Cheng EY. Matas A.J. Osteonecrosis due to Immunosuppression in Organ Transplantation: 1) Nonspecific bone pain and osteonecrosis: Are they related? A possible role for calcium channel blockers? 2) A new treatment to delay hip replacement in the collapsed femoral head? **Principal Investigator, National Institute of Health NIH 2P01DK13083-300219 Grant**, October 1997, \$187,851
55. Initiation of several multi-year studies including double blind, randomized prospective drug trial for nonspecific bone pain, prospective study screening for osteonecrosis in organ transplant patients, randomized prospective surgical trial for precollapse osteonecrosis, and a prospective surgical trial for postcollapse osteonecrosis. **Principal investigator**. These studies led to publications #19, 20 and scientific presentations #33, 34, 36, 38.
56. Cheng EY. Osteonecrosis Due to Immunosuppression in Organ Transplantation: A Possible Role for Calcium Channel Blockers? A New Treatment to Delay Hip Replacement in the Collapsed Femoral Head? Minnesota Medical Foundation, June 1, 1996 to May 31, 1997, \$8,500
57. Cheng EY., et al. Multidisciplinary Bone & Soft Tissue Tumor Consultation Service, UMCA Program Development Grant. **Principal investigator**. Established identity of Bone and Soft Tissue Tumor Center through formal tumor board review, hiring of personnel, marketing materials, physician satisfaction survey, database of patients and referring physicians, and outcome analysis. July 1, 1995 to June 30, 1997, \$125,064
58. Cheng EY. Randomized, Open Label, Parallel Group Comparison of the Safety and Efficacy of Lovenox Injection Versus Coumadin in the Prevention of Thromboembolic Disease Following Hip Replacement, Multi-institutional drug study, PACT. **Principal investigator**. Participation in multi-institutional study. 1995-1996, \$5,250
59. Cheng EY. American Cancer Society Educational Grant. Bone and Soft Tissue Tumor Review Course. University of Minnesota, Chaska. Unrestricted grant support for start up costs (histologic slide sets, curriculum materials) associated with development of a continuing medical education course. June 1993, \$5000,
60. Cheng EY., Oegema T.R. Giant Cell Tumor of Bone: Hormonal Regulation of Growth and

Administration of Cytotoxin via Mannose Receptor Mediated Endocytosis. Orthopaedic Research and Education Foundation Grant. **Principal investigator.** February 1, 1992. \$114,000. Work led to published abstracts #6, 7, 8 and scientific presentations #8,11,15,16.

Impact Analytics

<i>h</i> -Index	<i>h</i> (<i>f</i>)-Index	Total Publications	First/Last Author Publications	Total Citations	First/Last Author Citations
32	21	70	41	3481	1569

Publications

Peer-Reviewed Publications

1. **Cheng EY.** JBJS EST Editor’s Choice Award Winners for 2022. *JBJS Essential Surgical Techniques* 13(2):e23.00037, April-June 2023
2. Comadoll S., Haselhuhn J., Sembrano J., Ogilvie CM., **Cheng EY.**, Jones K., Martin CM., Polly D. “Sacroiliac Joint Fusion Navigation: How Accurate is Pin Placement?” *Neurosurgical Focus.* 2023 Jan;54(1):E9. doi: 10.3171/2022.10.FOCUS22608. PMID: 36587403.
3. Leggett AR, Schneider GJ, Kissin YD, **Cheng EY**, Rossman SR. “Arthroscopic Lysis of Adhesions for the Stiff Total Knee Arthroplasty.” *JBJS Essential Surgical Techniques.* January-March 2023.
4. Skubitz, K.M.; Domingo-Musibay, E.; **Cheng, EY.** “Prospective Trial of Monocyte Count as a Biomarker of Hand-Foot Syndrome Among Patients with Soft Tissue Sarcomas Treated with Pegylated Liposomal Doxorubicin and Ifosfamide.” *Cureus.* 2022 Apr 26;14(4):e24498. doi: 10.7759/cureus.24498. eCollection 2022 Apr.PMID: 35651410
5. Skubitz, K.M.; Domingo-Musibay, E.; Lindgren, B.R.; **Cheng, EY.** “Prospective Trial of Neutrophil/Lymphocyte Ratio and Other Blood Counts as Biomarkers of Survival among Patients with High-Grade Soft Tissue Sarcomas Treated with Pegylated Liposomal Doxorubicin and Ifosfamide.” *Cancers (Basel).* 2022 Jul 14;14(14):3419. doi: 10.3390/cancers14143419. PMID: 35884480
6. Lingamfelter M, Novaczyk ZB, **Cheng EY.** Extensile Anterior and Posterior Knee Exposure for Complete Synovectomy of Diffuse Tenosynovial Giant Cell Tumor (Pigmented Villonodular Synovitis). *JBJS Essent Surg Tech.* 2022 May 25;12(2):e21.00035. doi: 10.2106/JBJS.ST.21.00035 eCollection 2022 Apr-Jun.PMID: 36741035.
7. **Cheng EY,** Cui Q. Introductory Comments. “Special Issue of the ARCO 2019 Biennial Meeting.” *J Bone Joint Surg. Am.,* 2022 Apr 6;104(Suppl 2):1. doi: 10.2106/JBJS.22.00002.PMID: 35389900
8. Hoogervorst P; Campbell JC, Scholz N, **Cheng EY.** Core Decompression and Bone Marrow Aspiration Concentrate Grafting for Osteonecrosis of the Femoral Head. *J Bone Joint Surg Am.,* 104(Suppl 2); 54-60, Scientific Articles. April 6, 2022. doi: 10.2106/ JBJS.20.00527. PMID: 35389906
9. Shih Y, Bartschat N, **Cheng EY.** Sliding Hip Screw and Side Plate for Intertrochanteric Hip Fractures. *JBJS Essent. Surg. Tech.,* 2022 Feb 16;12(1):e19.00038.doi: 10.2106/JBJS.ST.19.00038. eCollection 2022 Jan-Mar.PMID: 35685237.
10. Koo KH, Mont MA, Cui Q, Hines JT, Yoon BH, Novicoff WM, Lee YJ, **Cheng EY,** Drescher W, Hernigou P, Kim SY, Sugano N, Zhao DW, Ha YC, Goodman SB, Sakai T, Jones LC, Lee MS, Yamamoto T, Lee YK, Kang Y, Burgess J, Chen D, Quinlan N, Xu JZ, Park JW, Kim HS. The 2021 Association Research Circulation Osseous Classification for Early-Stage Osteonecrosis of the Femoral Head to Computed Tomography-Based Study. *J Arthroplasty.* 2022 Jun;37(6):1074-1082. doi: 10.1016/j.arth.2022.02.009. Epub 2022 Feb 11.PMID: 35151809
11. Ghert M, Schneider P, Guyatt G, Thabane L, Velez R, O’Shea T, Randall RL, Turcotte R, Wilson

- D, Wunder JS, Baptista AM, **Cheng EY**, Doung YC, Ferguson PC, Giglio V, Hayden J, Heels-Ansdell D, Khan S, Kumar VS, McKay P, Miller B, van de Sande M, Zumarraga JP, Bhandari M, The Prophylactic Antibiotic Regimens in Tumor Surgery (PARITY) Investigators. “Comparison of Prophylactic Intravenous Antibiotic Regimens After Endoprosthetic Reconstruction for Lower Extremity Bone Tumors A Randomized Clinical Trial.” *JAMA Oncology*. 2022 Mar 1;8(3):345-353. doi: 10.1001/jamaoncol.2021.6628.PMID: 34989778
12. Baldwin KD, **Cheng EY**. “Beyond the Supracondylar Humeral Fracture – Treating Common and Enigmatic Fractures in Children.” *JBJS Essent. Surg. Tech.* 11(4):e2100006. Editorial. December 22, 2021.
 13. **Cheng EY**, Matson DM, Morgenstern KD, Agel J, Hoogervorst P. “Levels of Urgency for Orthopaedic Procedures: Reliability and Adoption of a Consensus-driven Classification.” *The Journal of the American Academy of Orthopaedic Surgeons*. 2021 Nov 1;29(21):e1078-e86. Epub 2020/12/01.
 14. **Cheng EY**. “In Appreciation.” *J Bone Joint Surg. Am.* 103(24):2341-2347. October 26, 2021.
 15. Comadoll, S, Sembrano, JN, Martin CT, Jones KE, Ogilvie CM, **Cheng EY**, Polly DW Jr.. Sacroiliac Joint fusion Navigation - How Accurate Is Pin Placement? *The Spine Journal*, September 01, 2021, Volume 21, Issue 9, Supplement, S74.
 16. Hines JT, Woo LJ, Cui Q, Mont MA, Koo KH, **Cheng EY**, Goodman SB, Ha YC, Hernigou P, Jones LC, Kim SY, Sakai T, Sugano N, Yamamoto T, Lee MS, Zhao D, Drescher W, Kim TY, Lee YK, Yoon BH, Baek SH, Ando W, Kim HS, Park JW. “Osteonecrosis of the Femoral Head: An Updated Review of ARCO on Pathogenesis, Staging, and Treatment.” *J Korean Med. Sci.*, 2021 June 21;36(24):e177. doi: 10.3346/jkms.2021.36.e177. <https://jkms.org/DOIx.php?id=10.3346/jkms.2021.36.e177>
 17. **Cheng EY**, Swiontkowski MF. “Celebrating 10 Years of Innovation.” *JBJS Essential Surgical Techniques*: August 27, 2021, Volume 11, Issue 3, e21.0047. doi: 10.2106/JBJS.ST.21.0047.
 18. **Cheng EY**, Cui Q, Goodman SB, Ando W, Baek SH, Bakker C, Drescher W, Hernigou P, Jones LD, Kim H, Kim ST, Kim TY, Ha YC, Koo KH, Lee MS, Mont MA, Reichert I, Sakai T, Salem HS, Sierra RJ, Stronach B, Sugano N, Tamamoto T, Yoon BH, Zhao D. “Diagnosis and Treatment of Femoral Head Osteonecrosis: A Protocol for Development of Evidence-Based Clinical Practice Guidelines.” *Surg Technol Int*. 2021 May 27:38sti38/1437.
 19. Schneider P, Heels-Ansdell D, Thabane L, Ghert M, PARITY Investigators including **Cheng EY**. Prophylactic Antibiotic Regimens in Tumor Surgery (PARITY): “A Multicenter Randomized Controlled Study Comparing Alternative Antibiotic Regimens in Patients Undergoing Tumor Resections with Endoprosthetic Replacements – A Statistical Analysis Plan.” *Trials*. Article 223. March 2021.
 20. Cui Q, Jo WL, Koo KH, **Cheng EY**, Drescher W, Goodman SB, Ha YC, Hernigou P, Jones LD, Kim SY, Lee SK, Lee MS, Lee YJ, Mont MA, Sugarno N, Taliaferro J, Yamamoto T, Zhao D. “ARCO Consensus on the Pathogenesis of Non-traumatic Osteonecrosis of the Femoral Head.” *J Korean Med. Sci.* 2021 Mar 15;36(10):e65. doi: 10.3346/jkms.2021.36.e65.
 21. **Cheng EY**. “Performing Arthroscopic Procedures Heretofore Considered Unimaginable.” *JBJS Essential Surgical Techniques*. 2020 Aug 20;10(3):e20.0036.
 22. **Cheng EY**. Congratulations to the 2019 JBJS EST Award Winners. *JBJS Essential Surgical Techniques* 2020 Jul-Sep: 10(3) e20 00025.
 23. **Cheng EY**. Intercalary Reconstructions, Seemingly Simple, But Vexing. Commentary on an article by P.T.J. Sanders, MD, et al.: “Long-Term Clinical Outcomes of Intercalary Allograft Reconstruction for Lower-Extremity Bone Tumors.” *The Journal of Bone and Joint Surgery*: June 17, 2020. Volume 102, Issue 12, pe61. doi: 10.2106/JBJS.20.00429
 24. Hoogervorst P., **Cheng EY**. Osteonecrosis of the Femoral Head. Diagnosing and Treating a Rare Condition. *Minnesota Physician*. 34 (1):1-8, April 2020.

25. Yoon BH, Mont MA, Koo KH, Chen CH, **Cheng EY**, Cui Q, Drescher W, Gangji V, Goodman SB, Ha YC, Hernigou P, Hungerford MW, Iorio R, Jo WL, Jones LC, Khanduja V, Kim HKW, Kim SY, Kim TY, Lee HY, Lee MS, Lee YK, Lee YJ, Nakamura J, Parvizi J, Sakai T, Sugano N, Takao M, Yamamoto T, Zhao DW. Yoon BH, et al. "The 2019 Revised Version of Association Research Circulation Osseous Staging System of Osteonecrosis of the Femoral Head." *J Arthroplasty*. 2020 Apr;35(4):933-940. doi: 10.1016/j.arth.2019.11.029. Epub 2019, Nov 27. *J Arthroplasty*. 2020. PMID: 31866252
26. **Cheng EY**. Announcing a New Video and Written Abstract Format for All Essential Surgical Technique Articles. Version 2. *JBJS Essential Surgical Techniques*. 1010 Jan. 7;10(1)e0061.1-2. Doi: 10.2106/JBJS.ST.19.00061.eCollection 2020 Jan-Mar.
27. **Cheng EY**, Ogilvie CM. Reconstruction of the Shoulder and Humerus in Metastatic Bone Disease. Instructional Course Lecture. 2019, 68: 577-584. PMID: 32032059.
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Non-Peer-Reviewed Publications

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1. **Cheng, EY**. *Who’s the Expert?* Fairview Magazine. Fall/Winter 2012.
2. **Cheng, EY**, Producer, Producer, *A Whole New Life After Bone Sarcoma*, Patient video education, 2012 http://www.youtube.com/watch?feature=player_detailpage&v=DGIv5p5D6o
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Chapters in Books

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1. **Cheng EY**, Ogilvie CM, Murugan P. “Tenosynovial Giant Cell Tumor/Pigmented Villonodular Synovitis.” Springer. *Sarcomas: Evidence-based Diagnosis and Management. Chapter 16, pages 221-230.* DOI: 10.1891/9780826148537. September 2020.
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Book Reviews

1. *Tumors of the Soft Tissues 2nd ed.*, Das Gupta, T.K., Chaudhuri, P.K., Appleton and Lange, Stamford, Connecticut, 1998. *J Bone and Joint Surg [Am]*, 81:1793-1794, 1999.

Presentations

Invited Oral Presentations at International Professional Meetings, Conferences, etc.

1. "Risk/Protective Factors of the Osteonecrosis of the Femoral Head in Kidney Transplant Recipients: A Large Series of Prospectively Collected Data." Association Research Circulation Osseous (ARCO) Conference, Osaka, Japan. September 6, 2024.
2. "A Novel Perspective on the Feasibility of Pharmacologic Interventions in Nontraumatic Osteonecrosis of the Femoral Head." Presented with Alreza Mirzaei, PhD. Association Research Circulation Osseous (ARCO) Conference, Osaka, Japan. September 6, 2024.
3. "Patellar Tendon Reconstruction Options," Arthroplasty Disaster Conference. Key Largo, FL. September 14, 2023.
4. "New Technology with Navigation, Custom Joints, Jigs, etc." Arthroplasty Disaster Conference. Key Largo, FL. September 14, 2023.
5. "Osteonecrosis: Will Advanced Imaging Lead to Etiologic Insights?" Association Research Circulation Osseous (ARCO). Seoul, South Korea. August 26, 2022.
6. "Biomechanical Analysis of a Novel Osteochondral Graft Specific for the Femoral Head." Co-Arthur. Association Research Circulation Osseous (ARCO). Seoul, South Korea. August 27, 2022.
7. "Phase II Trial of Autogenous Marrow Stem Cells for Osteonecrosis of the Femoral Head." Association Research Circulation Osseous (ARCO). Dalian, China. May 3-5, 2019.
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11. Is There a Mechanical Etiology To Osteonecrosis of the Femoral Head? 3rd International Orthopaedic Summit Forum and the 15th National Femoral Head Necrosis Continuing Medical Education Meeting, Dalian, China. August 18, 2018.
12. Stem Cell Therapy for Osteonecrosis: Is It Really Helpful? 3rd International Orthopaedic Summit Forum and the 15th National Femoral Head Necrosis Continuing Medical Education Meeting, Dalian, China. August 18, 2018.
13. Total Hip Arthroplasty of Femoral Head Necrosis: Opportunities and Challenges." Innovation and Consensus - The 2nd International Symposium on Orthopedics and Biomedical Materials Summit, Dalian, China, September 8-12, 2017.
14. Natural History and Screening for Osteonecrosis. The 2nd International Symposium on Orthopedics and Biomedical Materials Summit, Dalian, China, September 8-12, 2017.
15. Ethical/Moral Dilemma vs. Cost Considerations presentation. Arthroplasty Disaster International Conference, Coconut Grove, Miami, FL, September 22-24, 2016.
16. Osteonecrosis and Cancer, Interactive Presentation: ARCO International, February 29, 2016, Orlando, FL. Workshop: Intro, goals. Staging systems, purpose, prognostic importance, validation/reliability.
17. Revision Joint Arthroplasty Seoul National University, Seoul, South Korea. September 2010.
18. Revision Joint Arthroplasty. Mongolian National Trauma and Orthopaedic Hospital, UlaanBaatar, Mongolia. September 2010.
19. Keys to Unlocking the Mystery of Osteonecrosis. ARCO Annual Meeting. Yokohama, Japan. November 2009.

20. Reconstruction of large pelvic defects after bone tumor excision. Japanese Society for Joint disease. Yokohama, Japan. November 2009.
21. Impact of Tribology in Orthopaedic Surgery. International Joint Tribology Conference, Memphis, TN October 2009.
22. ACOSOG Positron Emission Tomography study of response to neoadjuvant chemotherapy for soft tissue sarcomas. Connective Tissue Oncology Society, Barcelona, Spain, November 6-8. 2003.
23. ACOSOG Phase III randomized trial for patients with large (>8cm), high grade, soft tissue extremity/trunk sarcomas utilizing surgical excision and radiation with or without pre-operative neoadjuvant chemotherapy (Ifos/Adria). Cooperative Oncology Group Annual Meeting, San Antonio, TX, October 17, 2001.
24. Soft Tissue Sarcomas, University of Bern, Bern, Switzerland, January 19, 1999.

Invited Oral Presentations at National Professional Meetings, Conferences, etc.

1. Instructional Course. How to Advance Your Career Through Scholarly Publication. MAOA April 6-10, 2022, San Antonio, TX.
2. Cheng EY (pro) and Nelson JC (con). BMI as Factor versus Not. Disaster Complex Arthroplasty Conference. The Palms Hotel & Spa • Miami Beach, FL. April 28, 2022.
3. AAOS Specialty Day MSTS: Challenging Cases: Ask an International Expert. March 28, 2020. (Conference canceled due to COVID-19).
4. AAOS Instructional Course Lectures, Volume 68, Chapter 44. Reconstruction of the Shoulder and Humerus in Metastatic Bone Disease, Las Vegas, NV. March 2019
5. AAOS Symposium: Essential Knowledge and Surgical Techniques for Effective Management of Pathological Fractures: Case-Based learning. Technical Tips for Bone Augmentation. American Academy of Orthopaedic Surgeons, Las Vegas, NV. March 14, 2019.
6. AAOS Symposium: Musculoskeletal Oncology Educational Session: Pathological Fractures: Diagnosis, Pathophysiology, Treatments, Complications, and Controversies through Case-Based Learning. AAOS Annual Conference, New Orleans, LA. March 7, 2018.
7. MSTS Specialty Day. Moderator for Session III: Research Forum. AAOS Annual Conference. San Diego, CA. March 18, 2017.
8. An Anti-CSF-1 Antibody, for the Treatment of Pigmented Villonodular Synovitis (PVNS). International Society of Limb Salvage and Musculoskeletal Tumor Society (MSTS), Orlando, FL, October 2015.
9. PET-CT Response After NeoAdjuvant Chemotherapy Continues to Predict Progression Free Survival at Mid-Term in Prospective Trial for Soft Tissue Sarcomas. International Society of Limb Salvage and Musculoskeletal Tumor Society, Orlando, FL, October 2015.
10. Real-Time Surgical Navigation In Oncology and Potential Applications in ON. Association Research Circulation Osseous (ARCO) April 2015.
11. Allograft Prosthetic Periacetabular Reconstruction and Defining the Use of Surgical Navigation. Musculoskeletal Tumor Society, Symposium lecture, Las Vegas, NV, March 2015.
12. Pathologic Femur Fractures, Symposium on Pathologic Fractures. AAOS Annual Meeting, Las Vegas, NV, March 2015.
13. Ask an Expert. Tumor AAOS Annual Meeting. Las Vegas, NV March, 2015.
14. Ask an Expert. Tumor. AAOS Annual Meeting, New Orleans, LA. March 2014.
15. Extremity Sarcomas. 75th Annual Surgical Course in Breast/Endocrine/Cancer Surgery. Minneapolis, MN. June 2011.

16. Miracle of Tissue Transplantation: One Surgeon's Experience. LifeSource Organ and Tissue Donation Annual Meeting. Bloomington, MN. October 2011.
17. Osteonecrosis in Pediatric and Adolescent Acute Lymphoblastic Leukemia (ALL): Insights into the Etiology and Treatment of this Emerging Toxicity; Osteonecrosis in solid organ transplantation. National Cancer Institute-Cooperative Oncology Group, Workshop. January 25 -26, 2010.
18. Revision of Infected total joints, American Society of Orthopaedic Physician Assistants Annual Meeting, Minneapolis, MN June 29, 2008.
19. Ligament balancing in TKA with a Tensioning Device, University of Virginia Arthroplasty course, May 2006.
20. Allografts in Clinical Practice, Musculoskeletal Transplant Foundation, May 2006.
21. Osteonecrosis Delphi Panel, Center for Osteonecrosis Research and Education, Johns Hopkins University, Baltimore, MD, April 29 – May 1, 2004.
22. National Cancer Institute, Sarcoma intergroup oncology conference, invitee, Chicago, June 1, 2003.
23. Metastatic Bone Disease. Quality of Life Outcomes, Association of Bone and Joint Surgeons, Tampa, November 8, 2002.
24. Building on Molecular and Clinical Progress. Invited participant, Soft Tissue Sarcoma State of the Science Meeting National Cancer Institute, Bethesda, MD, June 17-18, 2002.
25. Chemotherapy for Soft Tissue Sarcomas. Musculoskeletal Tumor Society, San Francisco, CA, March 3, 2001.
26. Lumps & Bumps: How to Manage Soft Tissue Tumors. American Academy of Orthopaedic Surgery Annual Meeting, Orlando, March 18, 2000.
27. Allograft Prosthetic Composites of Proximal Femur. Musculoskeletal Tumor Society, Orlando, March 17, 2000.
28. Lumps & Bumps: How to Manage Soft Tissue Tumors, ICL # 404. American Academy of Orthopaedic Surgery Annual Meeting, Anaheim, February 5, 1999.
29. Z0320 protocol. American College of Surgeons Oncology Group. Chicago, IL, November 13, 1999.
30. Bone Tumors. American Academy of Orthopaedic Surgery, Orthopaedic Review Course, San Francisco, CA, December 1998.
31. Soft Tissue Tumors. American Academy of Orthopaedic Surgery, Orthopaedic Review Course, San Francisco, CA, December 1998.
32. Soft Tissue Tumors. Instructional Course Lecture, American Academy of Orthopaedic Surgeons, New Orleans, March 23, 1998.
33. Lumps & Bumps: How to Manage Soft Tissue Tumors, ICL # 404. American Academy of Orthopaedic Surgery Annual Meeting, Orlando, FL, March 23, 1998.
34. Soft Tissue Tumors. Instructional Course Lecture, American Academy of Orthopaedic Surgeons, San Francisco, California, February 14, 1997.
35. Soft Tissue Tumors. Instructional Course Lecture, American Academy of Orthopaedic Surgeons, Atlanta, Georgia, February 26, 1996.
36. The Role of Low Molecular Weight Heparin. National Association of Orthopaedic Nurses, Minneapolis, Minnesota, May 20, 1995.
37. Soft Tissue Tumors. Instructional Course Lecture, American Academy of Orthopaedic Surgeons, Orlando, Florida, February 16, 1995.

Invited Oral Presentations at Local and Regional Professional Meetings, Conferences, etc.

1. "Principle of Custom Pelvic Reconstruction of THA: With and Without Navigation." HCMC Trauma Ortho Conference. Minneapolis Convention Center. November 23, 2019.
2. "Diagnosis Hip versus Spine Disorder." HCMC Trauma Ortho Conference, Hyatt Regency, December 1, 2018.
3. "The Challenge of Pelvic Reconstruction - Beyond Augments and Cages." V. A. Medical Center, Orthopaedic Grand Rounds Invited Speaker. February 7, 2018.
4. "Screening for the Loose Component - Tests Needed: Best & New Techniques." HCMC Trauma Ortho Conference. Minneapolis Convention Center, October 28, 2017.
5. "The MSIS Definition of a Prosthetic Joint Infection: Are there deficiencies?" HCMC Trauma Ortho Conference. Minneapolis Convention Center, October 28, 2017.
6. MC for Rein in Sarcoma Party in the Park. Como Park. July 24, 2017.
7. "The Challenge of Pelvic Reconstruction - Beyond Augments and Cages." Mayo Clinic Orthopaedic Grand Rounds Invited Speaker. May 2016.
8. Infection: One Stage presentation & Knee Arthroplasty session moderator. Minnesota Orthopaedic Society, May 2016.
9. Severe Acetabular Deficiency: Using Navigation for Iliosacral Fixation. Hennepin County Orthopaedic & Trauma Seminar. Minneapolis, MN November 2013.
10. Zolendrate Impregnated Cement: Improving Pathologic Fracture Fixation. Hennepin County Orthopaedic & Trauma Seminar. Minneapolis, MN November 2013.
11. University of Minnesota Orthopaedic Faculty Meeting. Promotion and Tenure. Minneapolis, MN. November 1, 2011.
12. Twin Cities Chapter of the National Association of Orthopaedic Nurses Annual Meeting, Limb Salvage Surgery for Bone Tumors, Woodbury, MN. May 3, 2011.
13. Children's Hospital and Clinics, Cellular Therapy for Osteonecrosis, Minneapolis, MN. April 27, 2011.
14. Limb Salvage Reconstruction after Resection of Malignant Tumors, Sanford Children's Hospital, Sioux Falls, SD, November 2007.
15. Is it for Me? Hip and Knee Joint Replacement Surgery, St. Cloud Senior Expo, St. Cloud, August 25, 2007.
16. Lumps and Bumps, Avoiding Pitfalls in Evaluation, Veterans Affairs Medical Center Internal Medicine Grand Rounds, Minneapolis, April 20, 2007.
17. Allografts in clinical practice, LifeSource, September 2006
18. Post Transplant Osteonecrosis, Abbott Northwestern Hospital, Minneapolis, February 10, 2004.
19. Osteonecrosis, Surgical Options Other than THA, Midwest Arthroplasty Course, Minneapolis, May 2003.
20. Role of modular and custom implants in revision knee arthroplasty. Midwest Arthroplasty Course, Minneapolis, May 2-3, 2002.
21. American College of Surgeons Oncology Group Z0320 protocol. Chicago, IL, December 1, 2001.
22. Osteonecrosis, An Unsolved Dilemma. Mayo Clinic, September 12, 2001.
23. American College of Surgeons Oncology Group Z0320 protocol. Chicago, IL, June 23, 2001.
24. Proximal Femoral Reconstruction, University of Minnesota Revision Arthroplasty Course, Minneapolis, MN, April 27, 2001.
25. American College of Surgeons Oncology Group Z0320 protocol. Chicago, IL, December 1, 2000.
26. Soft Tissue Sarcomas, The Next Decision Point? Mayo Clinic, September 28, 2000.

27. American College of Surgeons Oncology Group Z0320 protocol. Chicago, IL, June 2000.
28. Second Chance Foundation, Osteonecrosis After Transplantation, July 18, 1998.
29. Fibromatosis, Is Wide Excision Justified, May 7, 1998.
30. Lumps, Bumps & Sarcomas, Avoiding Pitfalls, Minneapolis Surgical Society, November 6, 1997.
31. Soft Tissue Sarcomas, Minneapolis Surgical Society, November 1997.
32. Pitfalls in Diagnosis of Bone Tumors in Athletes, Minneapolis Sports Medicine Center, February 2, 1994.
33. Long Term Results of Total Hip Arthroplasty in the Immunocompromised Patient. Invited faculty, 27th Annual Orthopaedic and Trauma Seminar, Hennepin County Medical Center, Minneapolis, MN, 1992
34. Compassion: Identification and Response, Christian Medical and Dental Society, Minneapolis, MN, October 12, 1991.
35. Diseases of the Shoulder, Department of Medicine, Beth Israel Hospital, May 2, 1989.
36. Intraarticular Fractures of the Distal Radius, Brigham and Women's Hospital, September 28, 1987.
37. Examination of the Cervical Spine, Massachusetts General Hospital, August 16, 1986.
38. Fractures About the Knee, Brigham and Women's Hospital, November 12, 1985.

Presentations at Professional Meetings, Conferences, etc.

1. Comadoll S., Haselhuhn J., Sembrano J., Ogilvie CM., **Cheng EY.**, Jones K., Martin CM., Polly D. "Sacroiliac Joint Fusion Navigation: How Accurate is Pin Placement?" Society for Minimally-Invasive Spine Surgery (SMISS). Las Vegas, NV. Sept. 29-Oct. 2, 2022. (paper)
2. **Cheng EY** (pro) and Nelson JC (con). BMI as Factor versus Not. Disaster Complex Arthroplasty Conference. The Palms Hotel & Spa • Miami Beach, FL. April 28, 2022.
3. Swiontkowski JF, **Cheng EY.** ICIV – How to Advance Your Career Through Scholarly Publication. Mid-America Orthopaedic Association. April 8, 2022.
4. Doenges J, Valentine RJ, **Cheng EY**, Jones KE, Reed AB. A Novel Technique to Achieve Temporary Hypogastric Artery Control During Radical Sacral Tumor Resection. Midwestern Vascular 44th annual meeting. Minneapolis, MN. September 10-12, 2020. (poster)
5. **Cheng EY.** New Musculoskeletal Infection Society Criteria Increases Preoperative Detection of Prosthetic Joint Infection by Greater than 30 Percent. P0102. American Academy of Orthopaedic Surgeons (AAOS). Las Vegas, NV. March 2019.
6. Campbell J., **Cheng EY.** Core Decompression and Concentrated Bone Marrow Aspirate Injection for Osteonecrosis of the Hip. Minnesota Orthopaedic Society, Minneapolis, MN. May 4, 2018 (poster).
7. **Cheng EY**, PARITY investigators. The Prophylactic Antibiotic Regimens in Tumor Surgery (PARITY) International Randomized Controlled Trial, Poster Presentation. Connective Tissue Oncology Society (CTOS) 2017 annual meeting, November 8-11, 2017. Maui, HI.
8. Horst P, Marston S, **Cheng EY**, Swiontkowski M, Kline S, Schmidt A, Kyle R, Hu C, Shin J, Bechtold J (Orthopaedic Surgery Prosthetic Joint Infection Group) presented at the Hip Society (closed meeting), October 6, 2017 (preparation for NIH R34 Planning Grant submission). "Survey of Patterns of Local Intra-Wound Antibiotic Use by Joint Replacement Surgeons."
9. Busse E., **Cheng EY.** Prosthetic Joint Infection: Is an Antibiotic Holiday Prior to Second Stage Reimplantation Necessary? Minnesota Orthopaedic Society, Minneapolis, MN May 2017 (paper).
10. Rossman SR, **Cheng EY.** Prospective Evaluation of Alpha Defensin in Diagnosing Periprosthetic

Joint Infections. Minnesota Orthopaedic Society, Minneapolis, MN, May 2016. (paper)

11. Choi H, **Cheng EY**. Direct Intra-Articular Antibiotic Infusion Combined with Prosthesis Retention Treatment for Infected Total Knee Arthroplasty. Minnesota Orthopaedic Society Meeting, Minneapolis, MN May 2015.
12. Zantek N, Arndt P, Leger, R, Zydowicz D, **Cheng EY**. Apparent Drug-Induced Immune Hemolytic Anemia due to Vancomycin. AABB 2014 Annual Meeting Philadelphia, PA October 25-28, 2014.
13. **Cheng EY**, Kudidjian A, Block J, Gitelis S, Henshaw R, Wilky B, Trent J, Abraham J, Schramm U, Pinot P, Pang Y, Valentin MA, Borah B, Jiang L, Roubenoff R. MCS110, An Anti-CSF-1 Antibody, For The Treatment Of Pigmented Villonodular Synovitis (PVNS). CTOS Annual Meeting Berlin, Germany October 16, 2014.
14. **Cheng EY**, Manivel J, Froelich J, Weigel B, Ho YY, Skubitz K. FDG PET-CT Response After Neoadjuvant Chemotherapy Continues To Predict Progression Free Survival At Mid-Term In Prospective Trial For Soft Tissue Sarcomas. CTOS Annual Meeting Berlin, Germany October 16, 2014.
15. Wilke C, Wilson J, Ogilvie C, **Cheng, EY**, Clohisy D, Yuan J, Dusenbery K, Cho, L. Radiologic and pathologic response after neoadjuvant radiotherapy for myxoid liposarcoma of the extremities. ASTRO Meeting San Francisco, CA September 2014.
16. Naranje S, **Cheng EY**. Radiation Dosimetry of Intraoperative O-arm® versus CT for Radiofrequency Ablation of Osteoid Osteoma. AAOS New Orleans, LA March 2014.
17. Jagadale V, **Cheng EY**. Serum Interleukin 6 Improves Screening for Infected Total Knee Arthroplasty. AAOS New Orleans, LA March 2014.
18. Jagadale V, **Cheng EY**. Value of Interleukin 6 in the Diagnosis of Prosthetic Joint Infection. Minnesota Orthopaedic Society Annual Meeting Minneapolis, MN May 2013.
19. Horazdosky R., Manivel J., **Cheng EY**. Surgery and Actinomycin Improve Survival in Malignant Rhabdoid Tumor. Mid-America Orthopaedic Association Bonita Springs, FL April 2012.
20. T. Damron T, Brown C, Entezari E, Nazarian A, Snyder B, Hipp J, Calderon N, Terek R, **Cheng EY**, Aboulafia A, Anderson M, Gebhardt M. CT-Based Structural Rigidity Analysis Improves Specificity Over Mirels Scoring for Fracture Prediction. Orthopaedic Research Society, San Francisco, CA February 2012.
21. Entezari V., Nazarian A., Snyder B.D., Terek R.M., **Cheng EY.**, Aboulafia A.J., Anderson M.E., Gebhardt M.C., Damron T.A. CT-based Structural Rigidity Analysis Affects Treatment of Patients with Appendicular Metastases. International Bone and Mineral Society, 2011 Cancer Induced Bone Disease Meeting Chicago, IL, November 2011.
22. **Cheng EY**, Froelich JW, Manivel JC, Weigel BJ, Zheng Y, Skubitz KM. FDG PET-CT Response after Neoadjuvant Chemotherapy Predicts Progression Free Survival In Prospective Trial For Soft Tissue Sarcomas. Combined Meeting of the Connective Tissue Oncology Society /Musculoskeletal Tumor Society, Chicago, IL October 2011.
23. Kalore N.V., Maheshwari A., Sharma A., **Cheng EY.**, Gioe T.J. Is there a Preferred Articulating Spacer Technique for Infected Knee Arthroplasty? A Preliminary Study. The Knee Society Open Meeting February 2011.
24. Luna J.T., Kalore N.V., Zhang Y., **Cheng EY**. Does Zoledronic Acid Added to Bone Cement Reduce Local Progression of Metastatic Bone Disease? American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, February 2011.
25. Entezari V., Nazarian A., Snyder B.D., Terek R.M., **Cheng EY.**, Aboulafia A.J., Anderson M.E., Gebhardt M.C., Damron T.A. CT-based Structural Rigidity Analysis Affects Treatment of Patients with Appendicular Metastases. Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, February 2011.
26. Sharma A.K., Sembrano J.N., **Cheng EY**. Reconstruction of severe acetabular bone loss (Paprosky

- type-III) using acetabular cages. American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, February 2011.
27. Luna J.T., Kalore N.V., Zhang Y., **Cheng EY**. Does Zoledronic Acid Added to Bone Cement Reduce Local Progression of Metastatic Bone Disease? Connective Tissue Oncology Society, Paris, November 2010.
 28. Entezari V., Nazarian A., Snyder B.D., Terek R.M., **Cheng EY**., Aboulaflia A.J., Anderson M.E., Gebhardt M.C., Damron T.A. CT-based Structural Rigidity Analysis Affects Treatment of Patients with Appendicular Metastases. Connective Tissue Oncology Society, Paris, November 2010.
 29. Entezari V., Nazarian A., Snyder B.D., Terek R.M., **Cheng EY**, Aboulaflia A.J., Anderson M.E., Gebhardt M.C., Damron T.A. CT-based Structural Rigidity Analysis Affects Treatment of Patients with Appendicular Metastases. American Society of Bone Mineral Research Annual Meeting, Toronto, Canada, October 2010.
 30. Sharma A.K, Sembrano J.N, **Cheng EY**. Reconstruction of severe acetabular bone loss (Paprosky Type-III): A survival and functional analysis. Minnesota Orthopaedic Society Annual Meeting, Minneapolis, MN, May 2010.
 31. Luna J.T., Kalore N.V., Zhang Y., **Cheng EY**. Does Zoledronic Acid Added to Bone Cement Reduce Local Progression of Metastatic Bone Disease? Minnesota Orthopaedic Society Annual Meeting, Minneapolis, MN, May 2010.
 32. Maheshwari A., Gioe T.J., Kalore N., **Cheng EY**. Repeated infection after primary exchange arthroplasty for infected total knee arthroplasty: is salvage possible again? American Academy of Orthopaedic Surgery Annual Meeting, New Orleans, LA, March 2010.
 33. **Cheng EY**. Principles of limb salvage surgery. Okayama University, Orthopaedic Surgery, Okayama, Japan, November 2009.
 34. **Cheng EY**. Reconstruction of large pelvic defects after bone tumor excision. Japanese Society for Joint Disease, Yokohama, Japan, November 2009.
 35. **Cheng EY**. Keys to Unlocking the Mystery of Osteonecrosis. Association Research Circulation Osseous Annual Meeting. Yokohama, Japan, November 2009.
 36. Maheshwari A., Gioe T.J., Kalore N., **Cheng EY**. Repeated infection after primary exchange arthroplasty for infected total knee arthroplasty: Is salvage possible again? American Association of Hip and Knee Surgeons Annual Meeting, Dallas, TX, November 2009.
 37. **Cheng EY**., Froelich J.W., Manivel J.C., Weigel B.J., O'Donnell P.W., Skubitz K.M. Prospective trial correlating FDG-PET-CT with histologic response after neoadjuvant chemotherapy for soft tissue sarcomas. Connective Tissue Oncology Society Annual Meeting, Miami FL, November 2009.
 38. O'Donnell P.W., Froelich J.W., Dhurairaj. T, DeFor T.E., **Cheng EY**. Reliability of Choi and RECIST criteria for assessing treatment response in soft tissue sarcomas. Connective Tissue Oncology Society Annual Meeting, Miami, FL, November 2009.
 39. **Cheng EY**. Gait examination after pelvic sarcoma resection and allograft reconstruction. Connective Tissue Oncology Society Annual Meeting, Miami, FL, November 2009.
 40. **Cheng EY**. Gait examination after pelvic sarcoma resection and allograft reconstruction. Musculoskeletal Tumor Society/International Society of Limb Salvage Combined Meeting, Boston, MA, September 2009.
 41. O'Donnell P.W., Froelich J.W., Dhurairaj T., DeFor T.E., **Cheng EY**. Reliability of Choi and RECIST criteria for assessing treatment response in soft tissue sarcomas. Musculoskeletal Tumor Society/International Society of Limb Salvage Combined Meeting, Boston, MA, September 2009.
 42. **Cheng EY**., Froelich J.W., Manivel J.C., Weigel B.J., O'Donnell P.W., Skubitz K.M. Correlation of FDG-PET-CT with histologic response after neoadjuvant chemotherapy for soft tissue sarcomas. Musculoskeletal Tumor Society/International Society of Limb Salvage Combined Meeting, Boston, MA, September 2009.

43. **Cheng EY.**, Froelich J.W., Manivel J.C., Weigel B.J., O'Donnell P.W., Skubitz K.M. Correlation of FDG-PET-CT with histologic response after neoadjuvant chemotherapy for soft tissue sarcomas. American Society of Clinical Oncology Annual Meeting, Orlando, FL, May 2009.
44. Joglekar S., Kuskowski M., **Cheng EY.** Core Decompression with or without cement packing for pre-collapse osteonecrosis of the femoral head: Long term results. American Academy of Orthopaedic Surgery Annual Meeting, Las Vegas, NV, February 2009.
45. Joglekar S., Kuskowski M., **Cheng EY.** Core Decompression with or without cement packing for pre-collapse osteonecrosis of the femoral head: Long term results. American Association of Hip and Knee Surgeons Annual Meeting, Dallas, TX, November 2008.
46. Zwolak P., Manivel J.C., Jasinski P., Kirstein M.N., Dudek A.Z., **Cheng EY.** Release of Zoledronic acid from polymethylmethacrylate carrier - in vitro activity against giant cell tumor, metastatic renal cell carcinoma, and multiple myeloma of bone. Musculoskeletal Tumor Society Meeting. Phoenix, AZ, November 2008.
47. Sharma V., **Cheng EY.** Outcomes after excision of pigmented villonodular synovitis of knee. Musculoskeletal Tumor Society Annual Meeting. Phoenix, AZ, November 2008.
48. Sembrano J.N., Polly D.W., **Cheng EY.** 3-Dimensional Imaging System (O-arm) Guidance in Biopsy Procedures. Minnesota Orthopaedic Society, Minneapolis, MN, May 2008.
49. Sembrano J.N. Santos E.G., **Cheng EY.** Outcome of acetabular cage reconstruction in severe pelvic deficiency. American Association of Hip and Knee Surgeons Annual Meeting, Dallas, TX, November 2007.
50. Ajmal M., Matas A., Kuskowski M., **Cheng EY.**, Does statin usage reduce risk of steroid related osteonecrosis. Association Research Circulation Osseous Annual Meeting, Baltimore, MD, October 2007.
51. Ajmal M., Matas A., Kuskowski M., **Cheng EY.** Reduced incidence of steroid related osteonecrosis in diabetics after renal transplantation. Association Research Circulation Osseous Annual Meeting, Baltimore, MD, October 2007.
52. Sembrano, J, **Cheng EY.**, Acetabular cage reconstruction. Minnesota Orthopaedic Society Meeting, Minneapolis, MN, May 2007.
53. Sharma, V., Ajmal, M., **Cheng EY.** Resurfacing hemiarthroplasty for femoral head osteonecrosis. Minnesota Orthopaedic Society Meeting, Minneapolis, MN, May 2006.
54. Ajmal, M., Matas, A., Kuskowski, M., Sharma V, **Cheng EY.**, Reduced incidence of Osteonecrosis in Renal Transplant patients with diabetes. Minnesota Orthopaedic Society Meeting, Minneapolis, MN, May 2006.
55. Bella, G., Manivel, C.M., Clohisy, D.R., Thompson, R.C., **Cheng EY.** Surgical excision of intramuscular hemangiomas. Minnesota Orthopaedic Society Meeting, Minneapolis, MN, May 2006.
56. Bella, G., Manivel, C.M., Clohisy, D.R., Thompson, R.C., **Cheng EY.** Surgical excision of intramuscular hemangiomas. Musculoskeletal Tumor Society Meeting, Key West, FL, June 2006.
57. Recker R, Ensrud K, Diem S, **Cheng EY.** Bare S, Masarachia P, Roschger P, Fratzi P, Klaushofer K, Lombardi A, Kimmel D. Normal bone histomorphometry and 3D microarchitecture after 10 years Alendronate treatment of postmenopausal women. American Society of Bone Mineral Research, Seattle, WA, 2004.
58. Saleh, K.J., Bershadsky, B., **Cheng EY.**, Kane, R., Lessons Learned from MODEMS, The Hip and Knee Musculoskeletal Outcomes Data Evaluation and Management System. American Orthopaedic Association, Boston, MA, June 2004.
59. Saleh, K.J., Bershadsky, B., **Cheng EY.**, Kane, R., Lessons Learned from MODEMS, The Hip and Knee Musculoskeletal Outcomes Data Evaluation and Management System. American Geriatric Society, Las Vegas, NV, May 2004.

60. Skubitz, K.M., **Cheng EY**, Clohisy, D.R., Thompson, R.C., Skubitz, A.P., Gene expression in giant cell tumors. American Society of Clinical Oncology, New Orleans, LA, June 2004.
61. **Cheng EY**, Thongtrangan, I., Laorr, A., Saleh, K.J., Spontaneous Resolution of Osteonecrosis of the Femoral Head. Association Research Circulation Osseous, Jeju, Korea, October 2003.
62. **Cheng EY**, A prospective, randomized trial of core decompression versus core decompression with cement packing for pre-collapse osteonecrosis of the femoral head. Association Research Circulation Osseous, Jeju, Korea, October 2003.
63. **Cheng EY**, A prospective, randomized trial of core decompression versus core decompression with cement packing for pre-collapse osteonecrosis of the femoral head. American Association of Hip and Knee Surgeons, Dallas, TX, November 2002.
64. **Cheng EY.**, Dusenbery, K.E., Manivel, C.M., Clohisy, D.R., Skubitz, K.M, Thompson, R.C., Positive Margins After Attempted Wide Excision Of A Soft Tissue Sarcoma: Is Further Excision Necessary? Connective Tissue Oncology Society, San Francisco, CA, October 2002.
65. Cherian, S.F., Laorr, A., Saleh, K.J., Kuskowski, M.A., Bailey, R.F., **Cheng EY**, Reliability and prognostic ability of quantifying the extent of femoral head involvement in osteonecrosis. Minnesota Orthopaedic Society, Minneapolis, MN, May 2002.
66. Skubitz, K.M., **Cheng EY**, Clohisy D.R., Thompson, R.C., Jr., Manivel, C., Skubitz A.P.N., Gene Expression in Lipoma and Liposarcoma. American Society of Clinical Oncology, Orlando, FL, May 2002.
67. **Cheng EY**, Bailey, R., Gillingham, K., A prospective randomized trial of core decompression versus core decompression and cement packing for pre-collapse osteonecrosis of the femoral head. Musculoskeletal Tumor Society, Toronto, Canada, April 2002.
68. Marston, S.B., **Cheng EY**, A Prospective Study of Osteonecrosis of the Femoral Head in Solid Organ Transplantation Patients American Association of Hip and Knee Surgeons, Dallas, TX, November 2001.
69. Skubitz, K.M., **Cheng EY**, Clohisy D.R., Thompson, R.C., Jr., Manivel, C., Skubitz A.P.N., Gene Expression in Lipoma and Liposarcoma. Connective Tissue Oncology Society, Palm Beach, FL, November 2001.
70. Thompson, R.C., **Cheng EY**, Clohisy, D.R., Metastatic Osteosarcoma. Musculoskeletal Tumor Society, Gainesville, FL, May 2000.
71. Wilkins, R.M., Neel, M.E., **Cheng EY.**, Soubeiran, A, The Phenix Growing Prosthesis: An Update. Musculoskeletal Tumor Society, Gainesville, FL, May 2000.
72. Özerdemoglu, R.A., Transfeldt, E.E., **Cheng EY.**, Thompson, R.A., Ogilvie, J.W., Diagnostic Value of Biopsies in Tumors of the Sacrum. American Academy of Orthopaedic Surgeons, Annual Meeting, Anaheim, CA, February 1999.
73. Özerdemoglu, R.A., Transfeldt, E.E., **Cheng EY**, Thompson, R.C., Denis, F., Lumbosacral Chordoma: Prognostic Factors and Treatment. American Academy of Orthopaedic Surgeons, Annual Meeting, Anaheim, CA February 1999.
74. Özerdemoglu, R.A., Transfeldt, E.E., **Cheng EY**, Thompson, R.C., Denis, F., Lumbosacral Chordoma: Prognostic Factors and Treatment. Scoliosis Research Society, New York, NY, September 1998.
75. Özerdemoglu, R.A., Transfeldt, E.T., **Cheng EY.** Thompson, R.C., Ogilvie, J.W., Diagnostic Value of Biopsies in Tumors of the Sacrum. Scoliosis Research Society, New York, NY, September 1998.
76. Weigel, B.J., Thompson, R.C., Jr., Clohisy, D.R., **Cheng EY**, Dahl, J., Dusenbery, K., Neglia, J.P., Perentesis, J.P., Successful Treatment of High Risk Relapsed Osteogenic Sarcoma with Ifosfamide, Carboplatin, and Etoposide. American Society of Clinical Oncology, Los Angeles, CA, May 1998.
77. Özerdemoglu, R., Transfeldt, E.E., **Cheng EY**, Lumbosacral Chordoma: Prognostic Factors and

- Treatment. Minnesota Orthopaedic Society, Minneapolis, MN, May 1998.
78. Dykes, D., **Cheng EY**, Thompson, R.C., Clohisy, D.R., Measuring Health Status Changes in Patients with Skeletal Metastases Treated by Surgery: Floor Phenomenon with the Short Form (SF) 36. Combined Meeting of American and European Musculoskeletal Tumor Societies, Washington, DC, May 1998.
 79. Özerdemoglu, R., Transfeldt, E.A., **Cheng EY.**, Lumbosacral Chordoma: Prognostic Factors and Treatment. Combined Meeting of American and European Musculoskeletal Tumor Societies, Washington, DC, May 1998.
 80. Thompson, R.C., Garg, A., Clohisy, D.R., **Cheng EY**, Dusenbery, K.E., Synovial Sarcoma: Size Predicts Outcome. Combined Meeting of American and European Musculoskeletal Tumor Societies, Washington, DC, May 1998.
 81. **Cheng EY**, Dusenbery, K.E., Clohisy, D.R., Thompson, R.C., Fibromatosis: Is Wide Excision Justified? Combined Meeting of American and European Musculoskeletal Tumor Societies, Washington, DC, May 1998.
 82. **Cheng EY**, Panel on Total Hip Arthroplasty Osteolysis Symposium. Minnesota Orthopaedic Society, Minneapolis, MN, April 1996.
 83. **Cheng EY**, Moderator, Total Hip/Knee/Elbow Section. 12th Annual Meeting of Minnesota Orthopaedic Society, Minneapolis, MN, April 1996.
 84. **Cheng EY**, Dusenbery, K.E., Winter M.R., Thompson, R.C., Extremity Soft Tissue Sarcomas: Preoperative vs. Postoperative Irradiation? North American Combined Musculoskeletal Tumor Society/European Musculoskeletal Oncology Society, Florence, Italy, May 1995.
 85. **Cheng EY**, Deloria, L.B., Scarborough, M.T., Oegema, T.R., Growth Inhibition of Giant Cell Tumor Stromal Cells by Normal Bone Marrow. North American Combined Musculoskeletal Tumor Society/European Musculoskeletal Oncology Society, Florence, Italy, May 1995.
 86. **Cheng EY**, Deloria, L.B., Scarborough, M.T., Oegema, T.R., Growth Inhibition of Giant Cell Tumor Stromal Cells by Normal Bone Marrow. Orthopaedic Research Society, February 1995.
 87. Dusenbery, K.E., Thompson, R.C., Jr., Walker, G.R., Clohisy, D.R., **Cheng EY**, Preoperative Irradiation in Soft Tissue Sarcomas: A Radiographic Analysis of Response. Radiologic Society of North America, Chicago, IL, October 1994.
 88. Winters, M.R., Dusenbery, K.E., **Cheng EY**, Goswitz, J., Lee, C.K., Thompson, R.C., Preoperative versus Postoperative Irradiation in the Treatment of Extremity Soft Tissue Sarcoma American Radium Society Annual Meeting, Paris, France, April 1994.
 89. Klibanoff, J.E., Robinson, Jr., H.J., Bradford, D.S., **Cheng EY**, Long Term Results of Cemented Hip Arthroplasty in Renal Transplant Patients. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, February 1994.
 90. **Cheng EY**, Jo, H., Deloria, L.B., Wayner, E.A., and Oegema, Jr., T.R., The Selective Expression of Integrins and Cellular Adhesion Molecules on Subpopulations of Cells in Giant Cell Tumor of Bone, Poster Presentation Orthopaedic Research Society, New Orleans, LA, February 1994.
 91. Klibanoff, J.E., Robinson, Jr., H.J., Bradford, D.S., **Cheng EY**, Long Term Results of Cemented Hip Arthroplasty in Renal Transplant Patients. Association Research Circulation Osseous, 5th Annual Meeting, Santiago De Compostela, Spain, October 1993.
 92. Klibanoff, J.E., Robinson, Jr., H.J, Bradford, D.S., **Cheng EY**, Long Term Results of Cemented Hip Arthroplasty in Renal Transplant Patients. The Hip Society, Detroit, MI, September 1993.
 93. **Cheng EY**, Deloria, L.B., Oegema, T.R., The Effect of Long Term Culture on the Characterization of Cells from Giant Cell Tumor of Bone, Poster Presentation, Orthopaedic Research Society, San Francisco, CA, February 1993.
 94. Clohisy, D.R., **Cheng EY**, Leonard, A.S., Thompson, R.C., Management of Metastatic Sarcoma: A

Comparison of Treatment with or without Metastesectomy. American Academy of Orthopaedic Surgeons, San Francisco, CA, February, 1993.

95. **Cheng EY**, Clohisy, D.R., Thompson, R.C., Soft Tissue Sarcomas: Management of the Patient After Prior Excisional Biopsy. Second North American Combined Musculoskeletal Tumor Society/European Musculoskeletal Oncology Society Meeting, Boston, MA, October 1992.
96. **Cheng EY**, Dusenbery, K., Thompson, R.C., Jr., Soft Tissue Sarcomas - Preoperative vs. Postoperative Radiotherapy. American Academy of Orthopaedic Surgeons Meeting, Washington, DC, 1992.
97. **Cheng EY**, Gebhardt, M.C., Springfield, D.S., Rosenberg, A.A., Mankin, H.J., Surgical Resection Margins for Malignant Bone Tumors: How Wide is Wide and What is Safe: American Academy of Orthopaedic Surgeons Meeting, Anaheim, CA, 1991.
98. **Cheng EY**, Springfield, D.S., Mankin, H.J., Liposarcoma: Unexpected Frequency of Extrapulmonary Sites of Metastasis. Musculoskeletal Tumor Society Annual Meeting, Chicago, IL, 1990.
99. **Cheng EY**, Springfield, D.S., Mankin, H.J., Liposarcoma: Unexpected Frequency of Extrapulmonary Sites of Metastasis. American Orthopaedic Association Annual Meeting, Boston, MA, 1990.
100. **Cheng EY**, Gebhardt, M.C., Roth, Y.S., Litwak, G.J., Taira, K., Suit, H.D., Mankin, H.J., Accelerated Growth of a Secondary Tumor Focus after Surgical Resection of a Primary Murine Osteosarcoma. Orthopaedic Research Society Transactions, Atlanta, GA, 1988.

Other Key Activities and Accomplishments

1. Distinguished Professor Appointment, Affiliated Zhongshan Hospital of Dalian University, September 11, 2017.
2. Chainbreaker Bike Ride Champion for Team Sarcoma, August 11-13, 2017.
3. Recalled Hips Lead to Early Replacements KARE 11 News, December 2011.
4. Karen Wyckoff Rein in Sarcoma Foundation Monthly Newsletter, March 2011.
<http://www.reininsarcoma.org/Interview-Dr-Cheng>
5. "Junk Joints" *National Joint Replacement Registry*, KMSP-TV Fox 9 News, November 8, 2010.
http://www.myfoxtwincities.com/dpp/news/investigators-junk-joints-nov-8-2010?CMP=201011_emailshare
6. *Health Talk and You, Joint Replacement and Arthritis*. Public Broadcasting System, April 18, 2001
7. *Health Talk and You, Arthritis*. Public Broadcasting System, April 25, 2000
8. *Health Talk and You, Joint Replacement*. Public Broadcasting System, March 28, 2000.
9. *Health Talk and You, Arthritis and Joint Replacement*. Public Broadcasting System, May 4, 1999.
10. *Health Talk and You, Joint Replacement and Arthritis*. Public Broadcasting System, December 1, 1998.
11. *Health Talk & You, Osteoporosis*. Public Broadcasting System, May 5, 1998.
12. *CBS Sunday Morning Program with Charles Osgood*. Columbia Broadcasting System, 1992

TEACHING AND CURRICULUM DEVELOPMENT

University of Minnesota (repeat for other university or academic positions)

Course/Lecture List

1. HHD3 Ortho/Pathology. Lecture for MS2. November 22, 2021.
2. Core Curriculum: Malignant Neoplasms – Soft Tissue. April 2, 2021.
3. Core Curriculum: Malignant Neoplasms—Bone. March 26, 2021.
4. University of Minnesota, Physical Therapy Students. Total Joint Arthroplasties. December 2, 2020.
5. Core Curriculum: Malignant Neoplasms—Soft Tissue. April 10, 2020 (prepared, but canceled due to COVID-19).
6. Core Curriculum: Malignant Neoplasms—Bone. April 24, 2020 (prepared, but canceled due to COVID-19).
7. Core Curriculum: Benign Bone Tumors. February 22, 2019.
8. Core Curriculum: Malignant Bone Tumors: May 17, 2019.
9. University of Minnesota, Physical Therapy Students. Total Joint Arthroplasties. October 16, 2019.
10. Arthroplasty Presentation, Arthroplasty Conference, Department of Orthopaedic Surgery, University of Minnesota. December 4, 2018.
11. University of Minnesota, Physical Therapy Students. Total Joint Arthroplasties. October 17, 2018.
12. Faculty EPIC Bones Lecture, May 9, 2018.
13. Core Curriculum: Malignant Bone Tumors, April 6, 2018.
14. Adult Recon Tuesday Conference: Revision Total Hip, June, 28, 2017.
15. Core Curriculum: Benign Bone Tumors, April 28, 2017.
16. Adult Recon Tuesday Conference: Primary Total Knee and Ligament Balancing, January 24, 2017.
17. University of Minnesota, Physical Therapy Students. Total Joint Arthroplasties. October 19, 2016.
18. Adult Recon Tuesday Conference: Revision Total Knee, August 23, 2016.
19. Adult Recon Tuesday Conference: Revision Total Hip, May 24, 2016.
20. Core Curriculum: Malignant Bone Tumors, April 1, 2016.
21. Core Curriculum: Benign Bone Tumors, March 11, 2016.
22. Adult Recon Tuesday Conference: Primary Total Hip, February 23, 2016.
23. University of Minnesota, Physical Therapy Students. Total Joint Arthroplasties. September 30, 2015.
24. University of Minnesota, Physical Therapy Students. Total Joint Arthroplasties. September 17, 2014.
25. University of Minnesota, Oncology Fellowship Fellows. X-Ray Technology for Sarcomas. December 20, 2013
26. University of Minnesota, Physical Therapy Students. Total Joint Arthroplasties. September 25, 2013.
27. University of Minnesota Physical Therapy Students. Total Joint Arthroplasties. October 3, 2012.
28. University of Minnesota Physical Therapy Students. Total Joint Arthroplasties. Minneapolis, MN. September 28, 2011
29. University of Minnesota, Oncology Fellowship Fellows. X-Ray Technology for Sarcomas. January 21, 2011
30. University of Minnesota, Stem Cell Therapy Weekly Meeting. Bone Marrow Harvesting. January

18, 2011

31. University of Minnesota Physical Therapy Students. Total Joint Arthroplasties. October 6, 2010.
32. University of Minnesota 34th Annual ET Bell Symposium. Surgical Approach to Bone and Soft Tissue Tumors. October 2, 2009
33. University of Minnesota Physical Therapy Student. Total Joint Arthroplasties. Minneapolis, MN. September 30, 2009
34. University of Minnesota Physical Therapy Students. Total Joint Arthroplasties. Minneapolis, MN. September 17, 2008.
35. Hip & Knee Arthroplasties, PM&R, University of Minnesota. Minneapolis, MN. May 21 2008, and June 4, 2008
36. Mongolia Presentation, Nurse Anesthetists, University of Minnesota, Minneapolis, MN. June 24, 2008
37. Mongolia Presentation, Orthopaedic Surgery Grand Rounds, University of Minnesota, Minneapolis, MN. June 6, 2008
38. Management of Sarcomas of Soft Tissue, Fairview Riverside Medical Center Tumor Conference, Minneapolis, Minnesota, May 1, 1997
39. Metastatic Bone Disease, The Case for Aggressive Surgical Management, University of Minnesota, Division of Oncology, September 12, 1991.
40. Update on Soft Tissue Sarcomas, University of Minnesota, Division of Oncology, April 11, 1991

Curriculum Development

1. Established Core Curriculum for UM Orthopaedic Surgery residency program
2. Hip and Knee Core Curriculum for residents
3. Ortho Diseases Core Curriculum for residents

Continuing Medical Education

1. Crucial Conversations: September 14, 2016.
2. Foundations of Healthcare Communications Course – Follow-up: “Angry Patient.” August 3, 2016.
3. Foundations of Healthcare Communications Course. June 17, 2015.
4. University of Minnesota, Department of Orthopaedic Surgery, Grand Rounds. Emerging Biologic Strategies in Orthopaedic Surgery. October 26, 2012.
5. University of Minnesota, Department of Orthopaedic Surgery, Grand Rounds. So you don’t think a HIPAA breach could happen to you? Think again! August 20, 2010.
6. Commonly Missed Diagnoses in Orthopaedic Surgery, University of Minnesota Family Practice and Review Course, Common Primary Care Orthopaedic Cases. Minneapolis, May 14, 2008.
7. Commonly Missed Diagnoses in Orthopaedic Surgery, University of Minnesota Family Practice and Review Course, Common Primary Care Orthopaedic Cases. Minneapolis, May 14, 2008.
8. Lumps and Bumps, Avoiding Pitfalls in Evaluation, University of Minnesota Internal Medicine Grand Rounds, Minneapolis, April 19, 2007.
9. Osteonecrosis: Pathophysiology/Predictors of Outcome, Arthritis and Arthroplasty Course: Hip, Knee, Shoulder, and Foot and Ankle, University of VA, Minneapolis, June 6, 2005.

10. Orthopaedic Emergencies, University of Minnesota Family Practice and Review Course, Minneapolis, May 27, 2005.
11. Orthopaedic Emergencies, University of Minnesota Family Practice and Review Course, Minneapolis, May 7, 2004.
12. Orthopaedic Emergencies, University of Minnesota Family Practice and Review Course, Minneapolis, May 9, 2003.
13. Soft Tissue Sarcomas, Grand Rounds, Department of General Surgery, University of Minnesota, January 30, 2001.
14. Total Joint Arthroplasty, Current Status & Mechanisms of Failure, Invited Faculty, University of Minnesota Dental School, April 9, 1993.
15. Soft Tissue Sarcomas, The University of Minnesota Experience, University of Minnesota Cancer Center, November 5, 1992.
16. Surgical Management of Osteoporosis, Invited Faculty, Women's Sports Medicine Update: Musculoskeletal Injuries in Active Women, University of Minnesota Sports Medicine Institute, September, 1990.

ADVISING AND MENTORING

Physician Staff

REDACTED

Post-doctoral research PhD supervised

REDACTED

Post-doctoral fellows supervised

REDACTED

Adult Reconstruction Fellows

REDACTED

Residents Supervised

REDACTED

Residents supervised for publication purposes:

REDACTED

Visiting Scholars Hosted

REDACTED

PROFESSIONAL SERVICE AND PUBLIC OUTREACH

Editorships/Journal Reviewer Experience

AAOS Resident Curriculum - Section Editor – General Medical Conditions. 2020-2021
 Reviewer, PLOS-ONE. PONE-D-15-55787, Phase I/II Multi-institutional Study of Percutaneous Radiofrequency Ablation for Painful Osteoid Osteoma (JIVROSG-0704) 3/2016
 Editor, Journal of Bone and Joint Surgery, *Essential Surgical Techniques* 2012-present
 Editor, Musculoskeletal Oncology: Benign Tumors, Am Acad Orthop Surg,
 Editor, “*Osteonecrosis of the Hip*”. Seminars in Arthroplasty, Volume 18:3, Elsevier, New York
 Consultant Reviewer, *Lancet* 2006-present
 Reviewer, Journal of Surgical Oncology,
 Reviewer, Clinical Orthopaedics and Related Research
 Reviewer, Journal of Rheumatology, Reviewer
 Section Editor, Annals of Surgical Oncology, Bone and Soft Tissue Sarcoma, 2004-2007
 Editorial Board Member, Journal of Bone and Joint Surgery-American, 2005-present
 Reviewer, Singapore, Biomedical Research Council,
 Consultant Reviewer, Cancer, 2001-present
 Consultant Reviewer, Journal of Bone and Joint Surgery-American, 1997-2005
 University of Minnesota, Colleagues Bulletin 1992

Organization of conferences, workshops, panels, symposia:

2020 Chair: ARCO Workshop (CPG), March 24, 2020. Scheduled to be in Orlando, FL; changed to international Zoom webinar workshop.
 2017 Chair: ARCO International, Berlin, Germany, October 24 – October 27, 2017. Congress of Orthopedics and Traumatology, “Basic Research in Osteonecrosis.”
 2016 Co-Program Chair: ARCO International, Orlando, FL, February 29, 2016. (Interactive presentation and Workshop)
 2012 Chairman, Musculoskeletal Tumor Society annual meeting
 2011 Chairman, Combined annual meetings for Musculoskeletal Tumor Society/Connective Tissue Oncology Society
 1996 Chairman, Bone and Soft Tissue Tumor Review Course, University of Minnesota, June 22-23, 1996.
 1994 Chairman, Bone and Soft Tissue Tumor Review Course, University of Minnesota, June 24-26, 1994.
 1994 Chairman, Bone and Soft Tissue Tumor Review Course, University of Minnesota, June 25-27, 1993.

Committee memberships International and National:

2024- FDA Ortho and Rehabilitation Devices Panel, Chairperson
 2019-2020 Association Research Circulation Osseous (ARCO) International, President
 2018-2019 Association Research Circulation Osseous (ARCO) International, President Elect.

- 2016 Expert Panel Membership: Orthopaedic Oncology Research Program Planning Initiative entitled “Moving Forward Through Consensus - A Modified Delphi Approach to Determine Top Research Priorities in the Field of Musculoskeletal Oncology.” This initiative is supported by the leadership of the Musculoskeletal Tumor Society and the Orthopaedic Research and Education Foundation. October 7, 2016.
- 2016 US FDA, Orthopaedic and Rehabilitation Devices Panel of the Medical Devices Advisory Committee, February 19, 2016.
- 2015-2017 Association Research Circulation Osseous (ARCO), Secretary-Treasurer.
- 2012 US FDA, Metal on Metal Orthopaedic Rehab Devices Advisory Committee
- 2011 Biomet Surgeon Hip Advisory Panel
- 2011-present Music Institute of Chicago Council
- 2010-2011 Musculoskeletal Tumor Society, Executive Board, President-Elect
- 2009-2010 Musculoskeletal Tumor Society, Executive Board, Treasurer
- 2008-2009 Musculoskeletal Tumor Society, Executive Board, Secretary
- 2007-2015 Association Research Circulation Osseous, Vice President, North America
- 2006-present Journal Bone and Joint Surgery, American Editorial Board
- 2006-present Musculoskeletal Transplant Foundation, Medical Board of Trustees, Executive Committee Member 2011
- 2005- Fulfillium, Inc., Scientific Advisory Board
- 2004- Musculoskeletal Tumor Society, Executive Committee
- 2000-2006 American College of Surgeons Oncology Group, Vice-Chair, Sarcoma Clinical Trials Committee
- 2000- DePuy Johnson and Johnson, Orthogenesis LPS prosthesis, international design panel
- 2000- American Association of Hip and Knee Surgeons, Co-Chair, Outcomes Committee
- 1999- Musculoskeletal Tumor Society, Research Committee, Chair 2004 – 2008
- 1997- United States Food and Drug Administration, Orthopaedic Devices Committee, Special Government Employee
- 1997-2001 American Academy of Orthopaedic Surgeons, Committee on Evaluations, Subcommittee on Musculoskeletal Tumors and Diseases Evaluation
- 1995-1998 American Academy of Orthopaedic Surgeons, Committee on Educational Programming
- 1995-1998 American Academy of Orthopaedic Surgeons, Committee on Shoulder & Elbow

State and Institutional:

- 2012-2022 Member, University of Minnesota, Department of Orthopaedic Surgery, Compensation Committee and Advisory Board
- 2012-2013 Chair, University of Minnesota Promotion and Tenure Committee
- 2011- University of Minnesota Medical Center Fairview, Executive Committee of the Medical Staff (re-elected 2013)
- 2011 Fairview, Physician Leadership Academy
- 2011 University of Minnesota, Graduate Medical Education Committee, Independent Review Chair for the Family Medicine-Mankato Review
- 2011-2012 Chair, University of Minnesota Promotion and Tenure Committee

2010	University of Minnesota/University of Minnesota Physicians Website Advisory Committee
2010	Fairview Orthopaedic Joint Replacement Program Line Guidance Committee
2010	UM Medical Director Athletics Search Committee
2010	Minnesota Community Measurement, Committee on Outcome after Total Knee Arthroplasty
2009-present	University of Minnesota, University of Minnesota Physicians, Clinical Practice Committee
2008-present	University of Minnesota, Tissue Procurement Facility Advisory Committee [BioNet Review Committee]
2006-2008	University of Minnesota Physicians, Compensation Committee
2004-2009	Karen Wyckoff Rein in Sarcoma Foundation, Founding Board Member
2004-2013	University of Minnesota, Promotions and Tenure Committee
2001-2002	University of Minnesota Physicians, Budget and Finance Committee
2000-2009	University of Minnesota Medical Center, Fairview Operating Room Committee
1999-2010	University of Minnesota Physicians Board of Directors
1999-2006	University of Minnesota Medical Center, Fairview, Executive Committee
1998-2010	University of Minnesota Orthopaedic Surgery Residency Core Curriculum, Course Director
1997	Health Talk and You, Public Broadcasting System, University of Minnesota Planning Committee
1996-1998	Minnesota Department of Health, Expert Review Panel on HIV Infected Surgeon
1995-1996	University of Minnesota, Membership Subcommittee for Faculty Organization and Relationship Task Force
1995-1996	University of Minnesota Ambulatory Care Management Committee, Executive Committee
1997-2001	University of Minnesota Medical Center, Fairview, Chairman, Tissue and Procedure Review Committee
1994-	University of Minnesota, Continuing Medical Education Council
1994-	University of Minnesota, Cancer Center Database Committee
1994-1997	University of Minnesota, Pharmacy and Therapeutics Subcommittee on Hemostasis
1991-1995	American Cancer Society, Professional Education Committee
1981	Northwestern University Medical School, Admissions Committee

Public Advocacy

AAOS Capitol Hill Days

Medical School Service and Intercollegiate Service

Promotion and Tenure Committee, Chair, 2011 and 2012

Department / Unit Service

Orthopaedic Surgery Department Compensation Committee	through 2022
Orthopaedic Faculty Search Committees	
• Adult Recon and General Ortho	2023-2024
Orthopaedic Scholarly Metrics Committee	
Adult Reconstruction Fellowship Program Director	2004-present