

## DARWIN D. CHEN, MD

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### Academic & Clinical Appointments

The Mount Sinai Hospital, Mount Sinai School of Medicine, New York, NY  
Leni and Peter May Department of Orthopaedic Surgery  
Division of Adult Reconstruction  
Assistant Professor, 2012-present  
Elmhurst Hospital Center, Elmhurst, NY  
Attending Physician, Department of Orthopaedic Surgery, 2012-2013  
Rush University Medical Center, Chicago, IL  
Clinical Instructor, Department of Orthopaedic Surgery, 2011-2012

### Licensure & Certifications

Licensed physician in New York State (#248092), 2008 to present  
Licensed physician in Illinois State, (#036-128684), 2011 to 2014  
Board certified, American Board of Orthopaedic Surgery, 2014 to present  
ABOS Part I: Passed 2011, ABOS Part II: Passed 2014

### Fellowships

Rush University Medical Center, Chicago, IL  
Adult Reconstruction/Joint Replacement, 2011-2012  
Program Directors: Craig Della Valle, MD, Aaron Rosenberg, MD, and  
Wayne Paprosky, MD  
Traveling Fellowship in Hip Surgery, 9/2012-11/2012  
Saint John's Health Center, Santa Monica, CA – Joel Matta, MD  
Washington University in Saint Louis, Saint Louis, MO – John Clohisy, MD  
Schulthess Klinik, Zurich, Switzerland – Michael Leunig, MD  
Inselspital, University of Berne, Berne, Switzerland

### Residency

The Mount Sinai Hospital, New York, NY  
Department of Orthopaedic Surgery, 2006-2011  
Administrative Chief Resident, 2010-2011  
Chairman: Evan Flatow, MD, Program Director: Bradford Parsons, MD  
USMLE Step 3: Passed 2006

### Education

Columbia University College of Physicians & Surgeons, New York, NY  
Doctor of Medicine (MD), May 2006  
USMLE Step 1: Passed 2004, Step 2CK, 2 CS: Passed 2005  
Stanford University, Stanford, CA  
Bachelor of Arts (BA) in Human Biology with Honors, June 2002

Stanford/Beijing University Exchange Program, Beijing, China, 2000

### Professional/Society Memberships

New York Arthroplasty Council (NYAC), 2018-present  
American Academy of Orthopaedic Surgeons, Fellow, 2012-present  
American Association of Hip and Knee Surgeons, Fellow, 2013-present  
Chicago Arthroplasty Alumni Association, member, 2012-present

### Honors/Awards

New York Magazine's Best Doctors 2018  
Castle Connolly Top Doctors 2018  
Teacher of the Year Award, Mount Sinai Department of Orthopaedic Surgery  
Residency Program, Icahn School of Medicine at Mount Sinai 2017  
New York SuperDoctors Rising Stars, 2016-2018  
Patients' Choice Award - Vitals.com, 2012-2018  
Compassionate Doctor Recognition - Vitals.com, 2013-2017  
Interactive Education Program (IEP) Total Joint Fellow Award Finalist, 2012  
OMeGA Fellowship Grant, 2011-12  
Dr. Robert Siffert Award for Academic Achievement, Mount Sinai Department of  
Orthopaedic Surgery, 2009, 2010, 2011  
JBJS-OREF Resident Journal Club Grant, 2010  
AOA-OREF Resident Leadership Forum Selection, 2010  
Pritzker Scholar, Stanford University Anthropological Sciences Department,  
2000  
Undergraduate Research Opportunities Major Grant, Stanford University, 2001  
Stanford Summer Honors College, 2001  
Merit Scholarship, Stanford University Music Department, 1998-2000

### Publications

Kesawani A, **Chen D**. Reducing Risk in Total Joint Arthroplasty. Assessing Mental Health, Mood, and Movement Disorders. Techniques in Orthopaedics, Symposium on Total Joint Arthroplasty Complications. Accepted.

Chan J, Robinson J, Poeran J, Huang HH, Moucha C, **Chen D**. Antibiotic Loaded Bone Cement in Primary Total Knee Arthroplasty: Utilization Patterns and Impact on Complications Using a National Database. Journal of Arthroplasty, Proceedings of the American Association of Hip and Knee Surgeons Annual Meeting. Accepted.

Cavinatto L, Bronson MJ, **Chen D**, Moucha CS. Robotic-assisted versus standard unicompartmental knee arthroplasty: Evaluation of manuscript conflict of interests, funding, scientific quality and bibliometrics. International Orthopedics. 2018 Oct 5.

Shemesh S, Moucha C, Keswani A, **Chen D**, Bronson M. Trochanteric Bursitis Following Primary Total Hip Arthroplasty: Incidence, Predictors, and Treatment. Journal of Arthroplasty. 2018 Apr;33(4): 1205-1209.

- Weiser MC, Shemesh S, **Chen D**, Bronson MJ, Moucha CS. The Effect of Door Opening on Operating Room Positive Pressure and Airflow. *Journal of the American Academy of Orthopaedic Surgeons*. 2018 Mar 1;25(5):e105-113.
- Walsh AL, Fields AC, Dietrich JD, **Chen DD**, Bronson MJ, Moucha CS. Risk Factors for Staphylococcus aureus Nasal Colonization in Joint Arthroplasty Patients. *Journal of Arthroplasty*. 2018 May;33(5): 1530-1533.
- Shemesh S, Robinson J, Overley S, Bronson MJ, Moucha CS, **Chen D**. Novel Technique for Intra-operative Sciatic Nerve Assessment in Complex Primary Total Hip Arthroplasty: A Pilot Study. *Hip International*. 2017 Oct 9.
- Robinson J, Shin JI, Dowdell J, Moucha CS, **Chen D**. Impact of Gender on 30 day Complications After Primary Total Joint Arthroplasty. *Journal of Arthroplasty*, 2017 Aug;32(8):2370-2374.
- Shemesh SS, Robinson J, Keswani A, Bronson MJ, Moucha CS, **Chen D**. The Accuracy of Digital Templating for Primary Total Hip Arthroplasty: Is there a Difference Between Direct Anterior and Posterior Approaches? *Journal of Arthroplasty*, 2017 Jun;32(6):1884-1889.
- Weiser M, **Chen D**. Revision for Taper Corrosion at the Neck-Body Junction following Total Hip Arthroplasty: Pearls and Pitfalls. *Current Reviews in Musculoskeletal Medicine*. 2016 Mar;9(1):75-83.
- Keswani A, Lovy AJ, Robinson J, Levy R, **Chen D**, Moucha CS. Risk factors predict increased length of stay and readmission rates in revision joint arthroplasty. *Journal of Arthroplasty*, 2016 Mar;31(3):603-8.
- Keswani A, Lovy AJ, Khalid M, Blaufarb I, Forsh D, Moucha CS, **Chen D**. The Effect of Aortic Stenosis on Elderly Hip Fracture Outcomes: A Case Control Study. *Injury*, 2016 Feb; 47(2):413-8
- Overly S, **Chen D**. Prevention of sciatic nerve palsy in complex total hip arthroplasty. *Checkpoint Surgical White Paper*, 5/2015.
- Chen D**, Berger R. Outpatient Minimally Invasive Total Hip Arthroplasty via a Modified Watson-Jones Approach. *Technique and Results. Instructional Course Lectures*, 2013;62:229-36
- Chen D**, Berger R: Minimally Invasive, Outpatient Total Hip Arthroplasty. *Rush Orthopaedic Journal*, 2012.
- Chen D**, Hausman M, Forsh D. Interposition Elbow Arthroplasty. *Hand Clinics*, May 2011; 27 (2): 187-197
- Parsons BO, Gruson KI, **Chen D**, Harrison A, Gladstone J, Flatow EL. Does slower rehabilitation after arthroscopic rotator cuff repair lead to long term stiffness? *Journal of Shoulder and Elbow Surgery*. Oct 2010; 19(7): 1034-9
- Capozzi JD, Rhoades R, **Chen D**. Ethics in Practice: Discussing Treatment Options. *The Journal of Bone and Joint Surgery*, 2009;91:740-742.
- Blaine TA, Kim YS, Volshin I, **Chen D**, Murakami K, Chang SS, Winchester R, Lee FY, O'Keefe RJ, Bigliani L. The molecular pathophysiology of subacromial bursitis in rotator cuff disease. *Journal of Shoulder and Elbow Surgery*, Jan-Feb 2005, Vol.14-1, S84-89.

- Blaine TA, Kim YS, **Chen D**, Patel M, Nadell C, Chang SS, Murakami K, Volshin I, Lee FY, Bigliani L. Microarray analysis of gene expression in the subacromial bursa in patients with rotator cuff disease (SS-74). *Arthroscopy: The Journal of Arthroscopic & Related Surgery*, May-June-Web-only 2004, Supplement, Vol.20, No.5, pe34-pe35.
- Chen YC, Lee SH, **Chen D**. Intradiscal pressure study of percutaneous disc decompression with nucleoplasty in human cadavers. *Spine*. 2003 Apr 1;28(7):661-5.

### Book Chapters

- Chan J, **Chen D**. The Musculoskeletal System, in *Textbook of Physical Diagnosis: History and Exam*, 8<sup>th</sup> Edition. Swartz MH, 2019. (Chapter editors).
- Chen D**, Berger R. The Watson Jones Approach to the Hip, in *The Adult Hip: Arthroplasty and Its Alternatives and Hip Preservation*, 3<sup>rd</sup> edition, Lippincott, Williams, & Wilkins, 2016.
- Levine B, **Chen D**. Extended Trochanteric Osteotomy, in *The Adult Hip: Arthroplasty and Its Alternatives and Hip Preservation*, 3<sup>rd</sup> edition, Lippincott, Williams, & Wilkins, 2016.
- Chen D**, Berger R. Extended Trochanteric Osteotomy: The Door to Femoral Revision, in *Atlas of Revision Hip and Knee Surgery*, 1<sup>st</sup> Edition. Scuderi GR, Tria AJ, Long W, Kang M (editors), Elsevier, 2014.

### Poster Presentations

- Chan J, Robinson J, Poeran J, Huang HH, Galatz L, Moucha C, **Chen D**. Antibiotic Loaded Bone Cement in Primary Total Knee Arthroplasty: Utilization Patterns and Impact on Complications Using a National Database. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, 3/12/19
- Cavinatto L, Bronson MJ, **Chen D**, Brochin R, Keswani A, Bozic K, Moucha CS. Robotic-assisted versus Standard Unicompartamental Knee Arthroplasty – Evaluation of Manuscript Conflicts of Interest, Funding, And Bibliometrics. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA 3/6/18.
- Cavinatto L, Bronson MJ, **Chen D**, Brochin R, Keswani A, Bozic K, Moucha CS. Robotic-assisted versus Standard Unicompartamental Knee Arthroplasty – Evaluation of Manuscript Conflicts of Interest, Funding, And Impact. American Association of Hip and Knee Surgeons Annual Meeting, Dallas, TX 11/2/17.

### Multimedia Presentations

- Robinson J, Keswani A, **Chen D**. Total Hip Arthroplasty in Developmental Hip Dysplasia with Femoral Shortening Osteotomy. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, 3/12/19.

Robinson J, Keswani A, **Chen D**. Total Hip Arthroplasty in Developmental Hip Dysplasia with Femoral Shortening Osteotomy. American Association of Hip and Knee Surgeons Annual Meeting, Dallas, TX, 11/1/2018.

Weiser M, **Chen D**. Two Techniques for Removal of a Recalled, Well Fixed, Dual Tapered, Modular Neck Femoral Stem. American Academy of Orthopaedic Surgeons Annual Meeting Orthopaedic Video Theater, Las Vegas, NV, 3/25/2015.

### Podium Presentations

Chan J, Robinson J, Poeran J, Huang HH, Galatz L, Moucha C, **Chen D**. Antibiotic Loaded Bone Cement in Primary Total Knee Arthroplasty: Utilization Patterns and Impact on Complications Using a National Database. American Association of Hip and Knee Surgeons Annual Meeting. 11/1/2018.

Shemesh S, Moucha C, Keswani A, **Chen D**, Bronson M. Lateral Hip Pain Following Primary Total Hip Arthroplasty: Incidence, Predictors, and Response to Treatment. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, 3/6/18.

Robinson J, Shin JI, Dowdell J, Moucha CS, **Chen D**. Impact of Gender on 30 day Complications After Primary Total Joint Arthroplasty. American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA, 3/14/17.

Weiser MC, Shemesh S, **Chen D**, Bronson MJ, Moucha CS. The effect of door opening on operating room positive pressure and airflow. 2016 Fall meeting of the New England Orthopaedic Society, Boston, MA, 11/18/16.

Shemesh S, Robinson J, Overlay S, Moucha C, **Chen D**. Intraoperative Sciatic Nerve Assessment in Complex Total Hip Arthroplasty Using a Handheld Nerve Stimulator: A Case Series. International Society for Technology in Arthroplasty 29<sup>th</sup> Annual Congress, Boston, MA, 10/7/16.

Fields A, Walsh A, Dieterich J, Carbonaro C, Mcdonough D, Walsh M, **Chen D**, Bronson M, Moucha C. Risk factors for Staphylococcus aureus nasal colonization in joint replacement patients. American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL, 3/3/16.

Fields A, Walsh A, Dieterich J, Carbonaro C, Mcdonough D, Walsh M, **Chen D**, Bronson M, Moucha C. Risk factors for Staphylococcus aureus nasal colonization in joint replacement patients. International Society for Technology in Arthroplasty 28<sup>th</sup> Annual Congress, Vienna, Austria, 10/3/15.

Fields A, Walsh A, Dieterich J, Carbonaro C, Mcdonough D, Walsh M, **Chen D**, Bronson M, Moucha C. Risk factors for Staphylococcus aureus nasal colonization in joint replacement patients. Musculoskeletal Infection Society 25<sup>th</sup> Annual Open Meeting, Cleveland, OH, 7/31/15.

**Chen D**. Type 3B Acetabular Defect with Pelvic Discontinuity – Total Joint Interactive Education Program Fellows Awards – American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, CA, 2/2012.

## Invited National Presentations

- Femoral Bone Loss in Revision THA. Orthopaedic Summit: Evolving Techniques, Las Vegas, NV, 12/8/17.
- Achieving Leg Length Equality in THA. Orthopaedic Summit: Evolving Techniques, Las Vegas, NV, 12/8/17.
- Complex Total Hip Arthroplasty for Severe Hip Dysplasia – Depuy-Synthes Going Through the World US-China Symposium, American Association of Hip and Knee Surgeons Annual Meeting, 11/1/2018.
- Complex Total Hip Arthroplasty for Hip Dysplasia – Grand Rounds, Department of Orthopaedic Surgery, Albert Einstein College of Medicine, Montefiore Medical Center, 4/20/18.
- Femoral Bone Loss in Revision THA. Orthopaedic Summit: Evolving Techniques, Las Vegas, NV, 12/8/17.
- Ceramic on Poly THA. Orthopaedic Summit: Evolving Techniques, Las Vegas, NV, 12/8/17.
- Achieving Leg Length Equality in THA. Orthopaedic Summit: Evolving Techniques, Las Vegas, NV, 12/8/17.
- Complex Total Hip Arthroplasty for Hip Dysplasia – Arthroplasty Grand Rounds, Lenox Hill Hospital, New York, NY, 1/31/2017.
- The Use of Trabecular Metal Augments in Acetabular Revision – Zimmer Institute Revision Hip and Knee Masterclass, New York, NY, 12/5/2014.
- Intraoperative and Perioperative THA Femur Fractures – Zimmer Institute Revision Hip and Knee Masterclass, New York, NY, 12/5/2014.
- Causes and Prevention of Hip Instability – Zimmer Institute Revision Hip and Knee Masterclass, New York, NY, 12/5/2014.
- Periprosthetic TKA Fractures – Zimmer Institute Revision Hip and Knee Masterclass, New York, NY, 12/6/2014.
- Lessons Learned in One Year as an Arthroplasty Surgeon – Arthroplasty Grand Rounds, Lenox Hill Hospital, New York, NY, 4/3/2014.
- Causes and Prevention of Hip Instability – Zimmer Institute Revision Hip and Knee Masterclass, New York, NY, 12/6/2013.
- Revising Metal on Metal Failures – Zimmer Institute Revision Hip and Knee Masterclass, New York, NY, 12/6/2013.
- Anterior Approach Total Hip Arthroplasty: New Standard or Passing Fad? - American Academy of Orthopaedic Surgeons Top Orthopaedic Controversies Course, New York, NY, 5/4/2013.

## Local Presentations

- Hip Arthritis and Total Hip Replacement – Orthopaedics for the Primary Care Provider Course, Icahn School of Medicine at Mount Sinai, New York, NY, 10/21/2016.
- Hip and Knee Replacement Today – Palisades Medical Center, NJ, Medical Grand Rounds, 11/13/2014.

Clinical Evaluation of Hip Pain – Orthopaedics for the Primary Care Provider Course, Icahn School of Medicine at Mount Sinai, 11/1/2014.

Hip Anatomy and Surgical Approaches – Orthopaedic Intern Lecture Series, Icahn School of Medicine at Mount Sinai, 10/22/2014

Physical Examination and Imaging of the Hip – Icahn School of Medicine at Mount Sinai, Orthopaedic Residency Core Lecture Series, 8/26/14

Thromboembolic Disease in Orthopaedic Surgery – Icahn School of Medicine at Mount Sinai, Orthopaedic Residency Core Lecture Series, 8/12/14

Surgical Approaches in Total Hip Arthroplasty - Mount Sinai School of Medicine, Orthopaedic Surgery Residency Core Lecture Series, 3/3/14

Preoperative Templating and Implant Selection in Total Hip Arthroplasty - Mount Sinai School of Medicine, Orthopaedic Surgery Residency Core Lecture Series, 3/4/14

Periprosthetic Femur Fractures after Total Hip Arthroplasty - Mount Sinai School of Medicine, Orthopaedic Surgery Residency Core Lecture Series, 3/24/14

THA Revision Cases - Mount Sinai School of Medicine, Orthopaedic Surgery Residency Core Lecture Series, 3/25/2014

The Young Adult with Hip Pain: Evaluation, Diagnosis, and Treatment - Mount Sinai School of Medicine, Orthopaedic Surgery Residency Core Lecture Series, 2/27/14

What's New in Hip and Knee Replacement – North Shore Medical Group, Huntington, NY, 1/15/2014.

Arthritis, Joint Protection, and Joint Replacement – US Open Tennis Championships, Mount Sinai Health Desk, 8/29/2013.

Total Hip Replacement for Rheumatologists – Icahn School of Medicine at Mount Sinai, Department of Rheumatology Grand Rounds, 7/29/2013.

Does Surgical Approach Matter in Total Hip Arthroplasty? - Mount Sinai School of Medicine, Department of Orthopaedic Surgery Grand Rounds, 4/3/2013.

What's New in Total Hip Arthroplasty: Anterior Approach THA – Palisades Medical Center, NJ, Grand Rounds, 2/27/2013.

New Innovations in Hip Surgery: Anterior Approach Total Hip Replacement and Bernese Periacetabular Osteotomy – TRIARQ Symposium, Advances in Orthopaedic Surgery, 11/27/2012.

Outpatient Minimally Invasive Total Hip Arthroplasty via a Modified Anterolateral Approach: Technique and Results – Rush University Medical Center Thesis Day, 6/2012

Does slower rehabilitation after arthroscopic rotator cuff repair lead to long-term stiffness? – Mount Sinai Department of Orthopaedics Research Day, 6/2011

Sequelae of Late Hip Dysplasia – Pediatric Conference, Mount Sinai Hospital, 9/2010

Surgical Approaches to the Hip and Pelvis – Cadaver Anatomy Course, Mount Sinai Hospital, 8/2010

Cervical Spondylotic Myelopathy – Spine Conference, Mount Sinai Hospital, 11/2009  
Surgical Approaches to the Cervical and Lumbar Spine - Cadaver Anatomy Course, Mount Sinai Hospital, 7/2009  
Complications of Tibial Shaft Fractures – Trauma Service Grand Rounds, Mount Sinai Hospital, 12/2008  
Superior Labrum Anterior to Posterior (SLAP) lesions – Sports Conference, Mount Sinai Hospital, 9/2008  
Surgical Approaches to the Shoulder and Upper Extremity – Cadaver Anatomy Course, Mount Sinai Hospital, 7/2008  
Femoroacetabular Impingement – Adult Reconstruction Conference, Mount Sinai Hospital, 5/2008  
Slipped Capital Femoral Epiphysis – Pediatric Conference, Elmhurst Hospital Center, 1/2008  
Septic Arthritis of the Hip - Pediatric Conference, Elmhurst Hospital Center, 11/2007  
Pediatric Elbow Trauma - Pediatric Conference, Elmhurst Hospital Center, 5/2007

### **Courses**

Orthopaedics for the Primary Care Provider, Mount Sinai Hospital, (Course Director) – 10/19/2018  
Current Strategies in Joint Replacement, Stryker Resident Cadaver Course (Course Director) – 3/22/2014  
Vail Joint Replacement Fellows Course 1/2012  
Stryker All Fellows Recon Knee Course 4/2011  
International Congress for Joint Reconstruction Winter Meeting 1/2011  
Stryker All Fellows Recon Hip Course 10/2010  
Smith & Nephew Direct Anterior THA Course 10/2010  
Smith & Nephew Birmingham Hip Resurfacing Certification Course 10/2010  
Zimmer Hip and Knee Residents Course 4/2010  
Zimmer Institute Primary and Revision Hip/Knee Solutions Course 10/2009  
Smith & Nephew Surgical Approaches to Internal Fixation Course 9/2009  
Stryker Resident Hip and Knee Reconstruction Course 9/2009  
AO Advanced Principles of Operative Fracture Management 3/2009  
Mount Sinai Musculoskeletal Pathology Course, 11/2008, 11/2009, 11/2010  
Mount Sinai Advanced Elbow Course, 10/2008  
AO Basic Principles of Operative Fracture Management, 3/2008

### **Editorial Activities**

Abstract reviewer, American Association of Hip and Knee Surgeons Annual Meeting, 2018  
Reviewer, Journal of Arthroplasty, 2017-present



## **Medical Consulting**

Smith & Nephew – consultant, 2019-present

Depuy-Synthes - consultant, paid speaker, 2018-present

Conformis – consultant, Surgeon Advisory Board (iTTotal Hip System), 2018-present

Monogram Orthopaedics - consultant, 2017

KCI/Acelity – consultant, 2016

## **Hospital/Departmental Committees**

Residency Selection Committee, Mount Sinai Department of Orthopaedic Surgery, 2012-present

Residency Education Committee, Mount Sinai Department of Orthopaedic Surgery, 2012-present

Clinical Competency Committee Chair, Mount Sinai Department of Orthopaedic Surgery, 2013-2016

ICD-10 Physician Champion, Mount Sinai Hospital, 2013-2015

Epic EMR Physician Champion, Mount Sinai Hospital, 2013-2015

## **Volunteerism**

Operation Walk Virginia – Santa Cruz, Bolivia, 2017, Director: Kevin Fricka, MD

Children of China Pediatrics Foundation (CCPF) – Chenghu, Sichuan, China  
2011, Pediatric Orthopaedic Surgery, Director: David Roye, MD

New York City Triathlon – New York, NY, Event Physician, 2008-2010