

CURRICULUM VITAE

Wayne K. Cheng, M.D.

Bones & Spine Surgery
25805 Barton Road #A106
Loma Linda, California 92354
E-Mail: md4spine@yahoo.com
PHONE (909) 906-1116
FAX (909) 906-1118

EDUCATION

Fellowship	Combined Orthopaedic and Neurosurgical Program in Adult Spine Surgery Duke University Medical Center Durham, North Carolina August 1, 2001 – July 31, 2002
Residency	Orthopaedic Surgery Martin Luther King, Jr./Drew Medical Center Los Angeles, California July 1, 1996 – June 30, 2001
Internship	General Surgery University of Southern California Medical Center Los Angeles, California June 24, 1995 – June 24, 1996
Post Graduate	Medical Doctor Loma Linda University School of Medicine Loma Linda, California July 1991 – June 1995
College	Bachelor of Science Loma Linda University Loma Linda, California September 1986 – June 1988 Pacific Union College Angwin, California September 1984 – June 1986

FACULTY APPOINTMENTS:

Clinical Professor

Department of Basic Science
Loma Lina University, School of Medicine
Loma Linda, California
July 1, 2015 -

Professor

Department of Orthopaedic Surgery
Loma Linda University, School of Medicine
Loma Linda, California
July 1, 2013 – June 30, 2018

Adjunct Associate Professor

Department of Basic Sciences
September 1, 2012 – June 30, 2015

Faculty of Graduate Studies

October 5, 2010 – June 30, 2015

Associate Professor

Department of Orthopaedic Surgery
Loma Linda University, School of Medicine
Loma Linda, California
March 31, 2009 – June 30, 2013

Head of Spine Service

Department of Orthopaedic Surgery
Loma Linda University, School of Medicine
Loma Linda, California
July 1, 2007 – June 30, 2013

Attending Physician, Medical Staff

Orthopaedic Surgery Section
VA Loma Linda Healthcare System
Loma Linda, California
October 11, 2006 –

Assistant Professor

Department of Orthopaedic Surgery
Loma Linda University, School of Medicine
Loma Linda, California
August 1, 2004 – March 30, 2009

Instructor

Department of Orthopaedic Surgery
Loma Linda University, School of Medicine
Loma Linda, California
September 1, 2002 – July 31, 2004

Orthopaedic Spine Surgeon

January 26, 2019

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Department of Orthopaedic Surgery
Loma Linda University Medical Center
Loma Linda, California
September 1, 2002 – June 30, 2015

Volunteer Faculty

Martin Luther King, Jr./Drew Medical Center
Department of Orthopaedic Surgery
Los Angeles, California
September 1, 2002 – August 1, 2007

PROFESSIONAL EXPERIENCE

Preceptor for Spine Surgeons
Three column osteotomies
cortical screw technique
Alphatec Spine Inc. 2014 -2016

International Spine Research Fellowship director
Loma Linda University Medical Center
Department of Orthopaedic Surgery
2006 - 2015

Course Faculty
Globus Medical, Inc.
Planning and Achieving Spinal Balance Cadaveric Training
course
Advanced Lateral Techniques for Creating Lumbar Lordosis
Newport Beach, California. June 13, 2015

Course Faculty
Globus Medical, Inc.
Spinal Deformity and Sagittal Imbalance Cadaveric
Training Course
MIS Lateral Corpectomy, Osteotomy, and Sacro-Pelvic
Fixation Techniques
Newport Beach, California. June 21, 2014

Chairman
Southern California Resident Spine Symposium
Newport Beach, California. September 18-19, 2010

Course Faculty
DePuy Spine
Concepts in Lateral Approach Surgery
Las Vegas, Nevada. August 28, 2010

Instructor
January 26, 2019

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Stryker Spine ALIF Cadaver Lab
Las Vegas, Nevada. November 7, 2008

Chairman
Medtronic Cervical Arthroplasty CORE Education Course
Prestige Cervical Disc. January 30, 2008

Faculty
Medtronic Cervical Arthroplasty CORE Education Course
San Diego, California. August 3-4, 2007

Teaching Faculty
Medtronic Cervical Arthroplasty: CORE Education.
March, 2007 –

Chairman
Residents' Trauma Forum
Huntington Beach, California. September 16-17, 2006

Chairman
2nd Annual Spine Symposium
8th Annual Mammoth Lakes Symposium
Mammoth Lakes, California. September 8, 2006

Director, Spine Grand Rounds & Journal Club
Loma Linda University School of Medicine
Department of Orthopaedic Surgery. 2005 – 2010

Founder, Spine & Orthopaedic Trauma
Research Fund
Loma Linda University School of Medicine
Alumni Association. 2005 –

Co-Chairman, 1st Annual Spine Symposium Current Concepts
in Hip, Knee & Spine
7th Annual Mammoth Lakes Symposium
Loma Linda University
Mammoth Lakes, California. September 9-10, 2005

President
Board of director, Meridian Professional Center
2015 –

Vice president
Link World Investment and Development Inc.
2011 –

Vice President
De Beau Finance Inc.
Alhambra, California. 1989 – 1992

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CEO
Sports Avenue, Inc. / Sports Avenue Team Sales
Alhambra, California. 1989 – 1991

Founder/President
Sugar Baby Diner, Inc. / Sugar Baby Night Club
Alhambra, California. 1987 – 1989

ORGANIZED MEDICINE PARTICIPATION

Review Editor/Peer Review Board Journal clinical & Experimental Orthopaedics	Sep 2015-
Review Editor/Peer Review Board The Open Orthopaedic Journal	March 2014 –
Review Editor/Peer Review Board Journal of Back and Musculoskeletal Rehabilitation	March, 2014 –
Review Editor/Peer Review Board International Journal of Spine Surgery	September, 2012 –
Medical Board of Trustees (MBOT) Education Committee Musculoskeletal Transplant Foundation	January, 2012 – June 30, 2015
Medical Board of Trustees Musculoskeletal Transplant Foundation	September, 2009 – June 30, 2015
Orthopaedic Research Committee	2009 – 2012
Clinical Science Faculty Advisory Council (CSFAC)	2002 –
Department of Orthopaedics, Resident Selection Committee	2002, 2014

HONORS AND AWARDS

Philip Glivar, Andrew Kutzner, Olumide Danisa, Daniel Wycliffe, Wayne Cheng “The Utility of Smart Screw Technology in Detecting Pedicle Breach During Screw Implantation in a Cadaveric Model” **First Place Award**, Orthopaedic Research Seminar
Loma Linda, California May, 2017

Qasim Zaidi, Olumide Danisa, Serkan Inceoglu, Wayne Cheng “Using Hounsfield Units to Quantify Optimal Fixation Techniques in Spine Surgery: A Biomechanical Study Correlating AP DEXA, lateral DEXA, and CT to Pullout

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Strength.” **First Place Award, Electronic Poster of the Year.**
America Academy of Orthopedic Surgery Annual Meeting 2017

Chen BY, Williams P, **Cheng WK.** “*Retrospective Analysis of Survivorship and Clinical Outcomes after Multi-level Anterior Lumbar Reconstruction: ALIF versus Hybrid Fusion*”.
Second place award, Orthopaedic Research Seminar
Loma Linda, California May 17, 2013

Justin Brier-Jones BS, Jared Kroger BS, Pierre Beaufond BS, Serkan Inceoglu PhD, Victoria Maskiewicz PhD, **Wayne K Cheng MD.** “*Setting Time Comparison of Four Antimicrobial Laden Calcium Sulfate Plasters*”.
First Place in Clinical - Basic Science Category
81st Annual Postgraduate Convention, Alumni Association
School of Medicine of Loma Linda University. March 1-4, 2013

Becker’s Spine Review
Top 20 Spine and Neurosurgery Leaders Award at Large Academic Medical Centers, April 2012

Walter E. Macpherson Society
In consideration of excellent investigation in medical science
Outstanding Student Research Supervisor Award, 2012

A. Husain, D.K. Palmer, R.M. Mehrdady, K.R. Criswell, D. Rios, **W.K. Cheng.** “*Cervical Transfacet Fixation: Safety and Accuracy of Open versus Percutaneous Approaches*”
First place award, Orthopaedic Research Seminar
Loma Linda, California. May 20, 2011

Jonathan Allen, MD; Vikram Jadhav, MD, PhD; Farbod Asgarzadie, MD, Shyam Kishan, MD, Tim Peppers, MD, Paul Williams, MS, and **Wayne Cheng, MD.** *Comparison Between Gearshift And Drill Techniques For Pedicle Screw Placement By Resident Surgeons.*
Second place award, Orthopaedic Research Seminar
Loma Linda, California. May 20, 2011

Daniel Kyle Palmer, BS, Jonathan L. Allen, MD, Paul A. Williams, MS, Ashley Elizabeth Voss, BS, Vikram Jadhav, MD, PhD, David S. Wu, and **Wayne K. Cheng, MD.** *Multilevel MRI Analysis of Multifidus-Longissimus Cleavage Planes in the Lumbar Spine and Potential Clinical Applications to Wiltse’s Paraspinal Approach*
Second place award, poster presentation Loma Linda University, 13th Annual Research Symposium
Loma Linda, CA, September 9, 2010.

Junior Residents' Faculty Recognition Award,
Department of Orthopedic surgery
Loma Linda University Medical Center
June 2010

Chief Resident Award
Division of Orthopaedic Surgery
Martin Luther King Medical Center, 2000 – 2001

Master's Course Resident Scholarship Award
Arthroscopy Association of North America, 1998

Alpha Omega Alpha Honor Medical Society
Epsilon Chapter of California. 1995

Dean's List of Distinguished Students
Loma Linda University, 1986 – 1987

Scholarship Award of Academic Excellence
Pacific Union College, 1984 – 1985

Valedictorian Award
Orange Wood Academy, 1984

LICENSURE

California Medical License
A062867, Exp. 03/31/2019

California DEA
BC5641306, Exp. 08/31/2019

Radiography and Fluoroscopy
X-ray Supervisor and Operator Permit
RHD 143752, Exp. 09/30/2019

Board Certified, Orthopaedic Surgery, July 2004
Re-certified 2014

Qualified Medical Examiner #130077, 2004 –

U.S. PATENTS

U.S. Patent No. 9,486,330
*Minimally Invasive Method and Surgical Tools for
Trans-PSOAS Approach*

U.S. Patent Application No. 61/833,768
Expandable Vertebral Body Cage
B18:03027.PRO

PROFESSIONAL MEMBERSHIPS

Cervical Spine Research Society
2013-

California Orthopaedic Association
2012-

Scoliosis Research Society
March 2010-

Neufeld Society
December 2009-

Society of Lateral Access Surgeons
November 2007-

North American Taiwanese Medical Association
August 2007-

Fellow
American Academy of Orthopaedic Surgeons
March 2006-

Spine Arthroplasty Society
International Society for the Advancement of Spine Surgery
July 2005-

North American Spine Society
Associate Member
September 2004-

Diplomat
American Board of Orthopaedic Surgery
July 2004-

Piedmont Orthopedic Society
Duke University Medical Center
July 2001-

Alpha Omega Alpha Honor Medical Society
January 2000-

GRANTS AND SPONSORED RESEARCH

IDE STUDIES AND CLINICAL TRIALS

- OrthoFix. Post Market Surveillance of Clinical and Functional Outcomes with Post-operative use of a Cervical Stimulator or Spinal Stimulator, 2008 – 2011

- Multi-center, randomized, prospective study comparing DIAM versus conservative treatment, 2008 – 2018
- TFAS (Total Facet Replacement System). Multi-center, randomized, prospective study comparing TFAS versus fusion, 2007-2009
- The Centers for Arthroplasty Research and Education in Spine (C.A.R.E.S.). Registry for total disc arthroplasty, 2008-2009
- Multi-center, randomized, prospective study comparing the Prestige LP2 Artificial Cervical Disc versus fusion, 2006 – 2018
- Multi-center, randomized, prospective study comparing the Kineflex Artificial Lumbar Disc to the Charite` Artificial Lumbar Disc, 2006 – 2013
- A post market surveillance validation to evaluate the effectiveness of the following product: Polaris Deformity Spinal System, 2010 – 2014
- The clinical and radiographic outcomes of anterior lumbar interbody fusion using a novel stand-alone interbody fusion device-(ROI-A) a prospective, non-randomized multi-center study, 2011
- A prospective, multi-center, randomized, controlled clinical trial evaluating the safety and effectiveness of NuBac™ disc arthroplasty, 2010 – 2013
- A multi-center, prospective, randomized study to evaluate the efficacy of the Aspen™ spinous process system for use in anterior lumbar interbody fusion (ALIF), 2009
- A comparison of clinical outcomes for fixed versus variable screw configuration for the Trinica® anterior lumbar plate, 2009 – 2010
- A prospective, randomized clinical investigation of the FLEXUS™ interspinous spacer – A pivotal study, 2012
- Osteocel® plus in anterior lumbar interbody fusion (ALIF): Evaluation of radiographic and patient outcomes, 2009 – 2011
- PercuDyn (PDS) system clinical study 2008 -2010
- Post-market surveillance of clinical and functional outcomes with post-operative adjunctive use of Cervical-Stim® or Spinal-Stim® 2008-2010
- Humanitarian Use Device: OP-1 putty, 2011-2015
- Randomized, prospective study on transcutaneous electric nerve stimulation for patients with Spondylolisthesis, 2005
- Randomized, prospective study on transcutaneous electrical nerve stimulation for patients with cervical pain, 2005

PUBLICATIONS / ORCID ID/0000-0002-5304-1645

PEER-REVIEWED JOURNALS

W. Cheng. CORR Insights®: Proximal Femur Hounsfield Units on CT Colonoscopy Correlate With Dual-energy X-Ray Absorptometry. Jan. 2019

Q Zaidi, O Danisa, **W Cheng.** Measurement Techniques and Utility of Hounsfield Unit Values for Assessment of Bone Quality Prior to Spinal Instrumentation: A Review of Current Literature. *Spine* 2018 Jul 30. (Epub ahead of print)

Wayne K. Cheng MD, Yusuf T. Akpolat MD, Serkan Inceoglu PhD, OA Danisa MD. *PEDICLE SCREWS WITH MODULAR HEAD VS. PREASSEMBLED HEAD USED IN CORTICAL BONE TRAJECTORY: Can Pars and Pedicle Fractures be prevented in osteoporotic Bones? Journal of Clinical Neuroscience.* 47,304-310.

A Hussain, **WK Cheng.** Percutaneous Posterior Cervical Transfacet Fixation Response. *Journal of Neurosurgery-Spine*27 (4), 482-483

Shalin Patel M.D.^a, Phillip Glivar M.D.^a, David Juma MPH^c, Farbod Asgarzadie M.D.^b, **Wayne Cheng, M.D.^a,** Olumide Danisa M.D.^a *The relationship between cervical lordosis and Nurick scores in patients undergoing circumferential vs. posterior alone cervical decompression, instrumentation and fusion for treatment of cervical spondylotic myelopathy.* Accepted for publication. July 2017.

Rafeek O Woods, Serkan Inceoglu, Yusuf T Akpolat, **Wayne K Cheng,** Brice Jabo, Olumide Danisa *C1 Lateral Mass Displacement and Transverse Atlantal Ligament Failure in Jefferson's Fracture: A biomechanical Study of the "Rule of Spence". Neurosurgery*82 (2), 226-231

Shalin S. Patel MD, Wilson Aruni PhD, Serkan Inceoglu PhD, Gary D. Botimer MD, **Wayne K. Cheng MD,** Olumide A. Danisa MD. *A comparison of staphylococcus aureus biofilm formation on cobalt-chromium and titanium spinal implants.* *Journal of Clinical Neuroscience* 31, 219-223.

Adeel Husain MD, Yusuf T. Akpolat MD, Daniel K. Palmer BS, David Rios BS, Kevin R. Criswell MA, **Wayne K. Cheng MD.** *A comparison of open versus percutaneous cervical transfacet fixation.* *Journal of Neurosurgery: Spine,* 421-429

A. Eleswarapu, S. Divi, D. Dirschl, J. Mok, C. Stoud, M. Lee and Colleagues. Pre-Operative Narcotic Utilization: Accuracy of Self-Reporting Prior to Spinal Surgery. *Neurosurgical Focus* 40 (4), A1-A44

YT Akpolat, OA Danisa, **WK Cheng.** *Complication Associated With Pedicle Screw placement Using Cortical Bone Trajectory.* *Clinical & Experimental Orthopaedics,* 2015. 1, 1:2

Benjamin Chen MD, Yusuf T. Akpolat MD, Paul Williams MS, Darren Bergey MD, **Wayne K. Cheng MD.** *Retrospective analysis of survivorship and clinical outcomes after multi-level anterior lumbar reconstruction: Stand-alone ALIF versus hybrid.* *J Clin Neurosci.* 2016 Feb 17. pii: S0967-5868(15)00676-1. doi: 10.1016/j.jocn.2015.10.033. Epub ahead of print

Cheng WK, Akpolat YT, Patel S, Inceoğlu S, Danisa OA. Pars/Pedicle Fracture And Screw Loosening Associated With Cortical Bone Trajectory: A Case Series And Proposed Mechanism Through A Cadaveric

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Study. 2015 Sep 24. pii: S1529-9430(15)01456-4. doi: 10.1016/j.spinee.2015.09.046. [Epub ahead of print], 16 (2), e59-e65. The Spine Journal 16 (2), e59-e65

Y. Akpolat¹, S. Inceoglu², N. Kinne¹, D. Hunt¹, **W. Cheng¹**. Fatigue Performance of Cortical Bone Trajectory Screw Compared to Standard Trajectory Pedicle Screw. Spine (Phila Pa 1976). 2015 Oct 17. [Epub ahead of print] Spine 41 (6), E335-E341

Shalin S. Patel MD, **Wayne K. Cheng MD**, Olumide A. Danisa MD. *A Case Series Of Early Complications After Instrumentation Of The Lumbar Spine Using Cortical Bone Trajectory Technique.* J Clin Neurosci. 2015 Oct 16. pii: S0967-5868(15)00449-X. doi: 10.1016/j.jocn.2015.07.018. [Epub ahead of print]. 24,63-67

Wayne K. Cheng MD, Serkan Inceoglu PhD. *Cortical and standard trajectory pedicle screw fixation techniques in stabilizing multi-segment lumbar spine with low grade spondylolisthesis.* Int J Spine Surg. 2015 Aug 31;9:46. doi: 10.14444/2046. eCollection 2015.

Serkan Inceoglu PhD, Justin Chen, Hayden Cale, Bjorn Harboldt, **Wayne K. Cheng MD**. *Unconstrained testing of spine with bi-axial universal testing machine.* Journal of the Mechanical Behavior of Biomedical Materials 50,223-227. 2015

Zachary S. Jager MD, Serkan Inceoglu PhD, Daniel Palmer BS, Yusuf T. Akpolat MD, **Wayne K. Cheng MD**. *Preventing Instrumentation Failure in 3-column spinal osteotomy: Biomechanical Analysis of Rod Configuration.* Spine Deformity 4 (1), 3-9

Peter Elsissy MD, Yusuf T. Akpolat MD, Alexander Chien MD, **Wayne K Cheng MD**. *MRI evaluation of the knee with non-ferromagnetic external fixators: Cadaveric knee model.* European Journal of Orthopaedic surgery & Traumatology 25 (5), 933-939.

Mark Mikhael MD, Jaysson T. Brooks MD, Yusuf T. Akpolat MD, **Wayne K. Cheng MD**. *Rotation effect and anatomic landmark accuracy for midline placement of lumbar artificial disk under fluoroscopy.* Published online May 14, 2015, Eur Spine Journal, 26 (3), 794-798

Jonathan Allen MD, Yusuf T. Akpolat MD, Shyam Kishan MD, Tim Peppers MD, Farbod Asgarzadie MD, **Wayne Cheng, MD**. *Comparison between gearshift and drill techniques for pedicle screw placement by resident surgeons.* Int J Spine Surg. 2015 Jun 11;9:23. doi: 10.14444/2023. eCollection 2015.

Robert S. Quigley MD, Yusuf T. Akpolat MD, Capt. Brent D. Forrest MD, Montri D. Wongworawat MD, **Wayne K. Cheng MD**. *Reason for lawsuit in spinal cord injury affects final outcome.* Spine 40 (11), 851-855

Yusuf K. Akpolat MD, Ben Fegale BS, **Wayne K. Cheng MD**. *Treatment of Os odontoideum in patient with spastic quadriplegic cerebral palsy: A case report and review of literature.* J Clin Neurosci. 2015 Aug;22(8):1239-43. doi: 10.1016/j.jocn.2015.03.004. Epub 2015 Apr 23. Review. 22 (8), 1239-1243

Wayne K. Cheng MD, Phillip A. Ta BS, Ahmed M. Abou-Zamzam, Jr. MD, Yusuf T. Akpolat MD, Phillip T. Guillen MD. *Novel posterior technique to temporize life-threatening hemorrhage after great vessel laceration during posterior osteotomy.* Eur Spine J. 25 (8), 2633-2636

Ray A. Grijalva MD, Frank PK Hsu MD, PhD, Nathaniel D. Wycliffe MD; Bryan E. Tsao MD; Paul Williams MS; Yusuf T. Akpolat MD; **Wayne K. Cheng MD**. *Hoffmann's Sign: Clinical correlation of neurological imaging findings in the cervical spine and brain.* Spine Apr 1;40(7):475-9, 2015.

Guillen PT MD, Knopper, RG BS, Kroger J BS, Wycliffe ND MD, Danisa OA MD, **Cheng WK MD**. *Independent Assessment of a New Pedicle Drilling Probe and Its Ability to Detect Pedicle Breach: A Cadaveric Study*. Journal of Neurosurgery: Spine 21:821-825, 2014.

Jared Kroger BS, Pierre Beaufond BS, Serkan Inceoglu, PhD, Victoria Maskiewicz PhD, **Wayne Cheng, MD**, Justin Eugene Brier-Jones BS. *Setting Time Comparison of Four Antimicrobial Laden Calcium Sulfate Plasters*. Duke Orthopaedic Journal June-July 2013; Vol 3, Issue 1: 36-40

BA Braly, N Spina, WT Ward, JY Lee, C Milchteim, JR O'Brien, MT Benke, and colleagues. *Pre-operative Activity Levels do not Correlate to Self-Reported Scores in Patients with Lumbar Spine Disorders: Results of 81 patients*. Neurosurgical Focus 34 (1), A1-A38

A Yang, W Dajnowicz, S Inceoglu, **W Cheng MD**. *Pullout strength comparison in central and juxta-endplate anterior lumbar interbody fusion plate placement*. Journal of Investigative Medicine Vol 61, Issue 1, January 2013

David Rios, BS, Wyzsxc Merfil Patacxil, MS, Daniel Kyle Palmer, BS, Paul A. Williams, MS, **Wayne K. Cheng, MD**, Serkan İnceoğlu, PhD. *Pullout Analysis of a Lumbar Plate with Varying Screw Orientations: Experimental and Computational Analyses*. Spine 2012; Vol 37, No 16:1-7

Daniel Kyle Palmer, BS, David Rios, BS, Wyzsxc Merfil Patacxil, MS, Paul A. Williams, MS, **Wayne K. Cheng, MD**, Serkan İnceoğlu, PhD. *Pullout of a lumbar plate with varying screw lengths*. International Journal of Spine Surgery 6 (2012) 8–12

Zachary Scott Hadley, MD, Daniel Kyle Palmer, BS, Paul Allen Williams, MS, **Wayne K. Cheng, MD**. *Pullout Strength of Anterior Lumbar Interbody Fusion Plates: Fixed Versus Variable Angle Screw Designs*. Journal of Spine 2012. Vol 1, Issue 4

Wayne K. Cheng, MD and Daniel K. Palmer, BS. *Rebuttal to letter to the editor: a novel surgical treatment option in which posterior dynamic stabilization (PDS) is utilized to correct coronal plane tilt of a lumbar total disc replacement (TDR)*. Spine Arthroplasty Society Journal. December 2011, Vol 5, No. 4:131

Kodigudla, Manoj¹; Palepu, Vivek¹; Goel, Vijay¹; Serhan, Hassan²; Mhatre, Devdatt²; **Cheng, Wayne³**; Allen, Todd⁴; Garfin, Steve⁴; Chen, Jack⁵. *Would bi-cortical screws plating system improve the stability of lateral lumbar interbody cage: GP57*. Spine: Affiliated Society Meeting Abstracts: October 2011

Daniel Kyle Palmer, BS, Jonathan L. Allen, MD, Paul A. Williams, MS, Ashley Elizabeth Voss, BS, Vikram Jadhav, MD, PhD, David S. Wu, and **Wayne K. Cheng, MD**. *Multilevel MRI Analysis of Multifidus-Longissimus Cleavage Planes in the Lumbar Spine and Potential Clinical Applications to Wiltse's Paraspinal Approach*. Spine. August 2011, Vol 36, No. 16: 1263-67

Daniel K. Palmer, BS, Serkan Inceoglu, PhD, and **Wayne K. Cheng, MD**. *Stem Fracture after Total Facet Replacement in the Lumbar Spine: A Report of Two Cases and Review of the Literature*. The Spine Journal. July 2011, Vol 11, No. 7: E15-E19

Justin Eugene Brier-Jones, BS, Daniel Kyle Palmer, BS, Serkan İnceoğlu, PhD, **Wayne K. Cheng, MD**. *Vertebral body fractures after transposas interbody fusion procedures*. The Spine Journal, November 2011, (11):1068-72

Wyzsxc Merfil Patacxil, MS, Daniel Kyle Palmer, BS, David Rios, BS, Paul Allen Williams, MS, **Wayne K. Cheng, MD**, Serkan Inceoglu, PhD. *Screw orientation and foam density interaction in pullout of anterior lumbar interbody fusion (ALIF) plates*. The Duke Orthopaedic Journal July 2011-June 2012;2(1):35-39

Wayne K. Cheng, MD, Daniel Kyle Palmer, BS, Vikram Jadhav, MD, PhD
Novel indication for posterior dynamic stabilization: Correction of disc tilt after lumbar total disc replacement. SAS Journal. June 2011, Vol 5, Issue 2: 44-47

Wayne K. Cheng, MD, Vikram Jadhav, MD, PhD, and Daniel K. Palmer, BS. *A novel modification for removal of polyethylene core in artificial disc retrieval using transposas minimally invasive technique*. Journal of Neurosurgery: Spine. April 2011, Vol 14, No 4:466-469

Richard D. Guyer, MD1 , Kenneth A. Pettine, MD2 , Reginald Q. Knight, MD3 , Thomas A. Dimmig, MD4 , Dom Coric, MD5 , Paul C. McAfee, MD6 , Charley Gordon, MD7 , Andrew Cappuccino, MD8 , Rudolph Buckley, MD9 , Pierce Nunley, MD10, Fred Geisler, PhD11, Timothy A. Peppers, MD12, James Rappaport, MD13, Gary Dix, MD14, **Wayne K. Cheng, MD15**, Serena Hu, MD16, Yu-Po Lee, MD17, Fabien D. Bitan, MD18, Ravinder Bains, MD19
Radiographic Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Controlled Multicenter FDA-Regulated Trial
The Spine Journal. 2011, 10 (9), S12-S13

N Mehta, P Elsisy, A Chien, I Kjellin, J Unis, U Oyoyo, B Holshouser, **W Cheng**
Evaluation of Image Quality of MR of the Knee With MR-safe Knee External Fixation Device at 3 Tesla
American Journal of Roentgenology. 2010, 194 (5)

Sam Chen, MD, Matt V. Anderson, BS, **Wayne K. Cheng, MD**, Montri D. Wongworawat, MD. *Diabetes Associated with Increased Surgical Site Infections in Spinal Arthrodesis*. Clinical Orthopaedics and Related Research. July 2009, 467:1670-1673

Jason Chiriano, DO, Ahmed M. Abou-Zamzam, MD, Olivier Urayeneza, BS, Wayne W. Zhang, MD, and **Wayne Cheng, MD**. *The role of the vascular surgeon in anterior retroperitoneal spine exposure: Preservation of open surgical training*. Journal of Vascular Surgery. July 2009, 50:232

Barton Sachs, MD, MBA, Scott Webb, DO, Courtney Brown, MD, David Wiles, MD, Antonio Castellvi, MD, Charles Wingo, MD, Michael Halperin, MD, John Hsiang, MD, PhD, Khalid Sethi, Paul Schwaegler, MD, John Demakas, MD, **Wayne Cheng, MD**, Bruce Frankel, MD, Jamal Taha, MD. *The Total Facet Arthroplasty System® (TFAS®) in the Treatment of Degenerative Lumbar Spinal Stenosis: Midterm Results of US IDE Trial with Longest Follow-Up of 24-Months*. The Spine Journal, Vol 8, Issue 5, Supplement, September–October 2008, 60S-61S

William T. Long, MD, **Wayne K. Cheng, MD**, and Earl W. Brien, MD. *Grading System for Gunshot Injuries to the Femoral Diaphysis in Civilians*. Clinical Orthopaedic and Related Research. March 2003, 408:92-100

BOOK CHAPTERS

Luis Marchi, Luiz Pimenta MD PhD, Leonardo Oliveira, Jonathan Allen MD and **Wayne Cheng MD**. *Extreme Lateral Interbody Fusion for Revision Lumbar Surgery*. In *eXtreme Lateral Interbody Fusion (XLIF®)*, 2nd Ed. Eds. J. Allan Goodrich, Ildemaro J. Volcan. Pp 1-13.

William Richardson, MD, **Wayne K. Cheng, MD**, and Robert Lins, MD. *Cervical Spine Surgery*. In *Rheumatoid Arthritis*, 1st Ed. St. Clair, W, Pisetsky DS, Haynes BF, eds. Lippincott, Williams, and Wilkins; 2004. pp 475-482.

BOOK REVIEWS

Journal of Neurosurgery, 2006
Diagnosis and Treatment of Pain of Vertebral Origin, 2nd ed., Robert Maigne

Journal of Neurosurgery, 2005
Physical Examination of the Spine, Albert & Vaccaro

ORAL AND POSTER PRESENTATIONS NATIONAL, INTERNATIONAL, REGIONAL

Grigor Grigoryan, Serkan Inceoglu, Yusuf T Akpolat, MD, Olumide A. Danisa, **Wayne K Cheng**
Sacral End-plate Penetrating Screw for Lumbosacral Fusion: A Cadaveric Biomechanical Study. Podium Presentation at 9th Annual meeting of Lumbar Research Society Meeting, Chicago, Illinois. April 15, 2016

Y. Akpolat¹, S. Inceoglu², N. Kinne¹, D. Hunt¹, **W. Cheng**¹. Fatigue Performance of Cortical Bone Trajectory Screw Compared to Standard Trajectory Pedicle Screw.
Poster presentation at 16th Annual Meeting of The International Society for the Advancement of Spine Surgery, Las Vegas, Nevada. April 7, 2015.

Shalin Patel M.D.^a, Phillip Glivar M.D.^a, David Juma MPH^c, Farbod Asgarzadie M.D.^b, **Wayne Cheng, M.D.^a**, Olumide Danisa M.D.^a *The relationship between cervical lordosis and Nurick scores in patients undergoing circumferential vs. posterior alone cervical decompression, instrumentation and fusion for treatment of cervical spondylotic myelopathy*.
Poster presentation at 16th Annual Meeting of The International Society for the Advancement of Spine Surgery, Las Vegas, Nevada. April 7, 2015.

Shalin S. Patel MD, Wilson Aruni PhD, Serkan Inceoglu PhD, Gary D. Botimer MD, **Wayne K. Cheng MD**, Olumide A. Danisa MD. *A comparison of staphylococcus aureus biofilm formation on cobalt-chromium and titanium spinal implants*.
Podium presentation at the AO Spine: Global Spine Congress. Buenos Aires, Argentina. May 20-23, 2015.

Wayne K. Cheng MD, Yusuf T. Akpolat MD, Shalin S. Patel MD, Serkan Inceoglu PhD, Olumide A. Danisa MD. *Pars/pedicle fracture as a complication during pedicle screw placement using cortical bone trajectory: Case report and pilot cadaveric study*.
Oral poster presentation at the 15th Annual Meeting of The International Society for the Advancement of Spine Surgery, San Diego, California. April 15, 2015.

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Patel S, **Cheng W**, Danisa O. Early Complication After Instrumentation of the Lumbar Spine using Cortical bone Trajectory Technique. Poster Presentation at CNS/AANS Section on disorders of the Spine and Peripheral Nerves. Phoenix, AZ. March 4-7, 2015

P.T. Guillen, P.A. Ta, **W.K. Cheng**. “*Novel Approach to Control Iatrogenic Great Vessel Laceration During Pedicle Subtraction Osteotomy*”.

Oral presentation at the ISASS13 Annual Meeting, Vancouver, BC, Canada. March 3-5, 2013.

Wojtek Dajnowicz¹, Andrew Yang¹, **Wayne Cheng MD²**, Serkan Inceoglu PhD². “*Central and Juxta-Endplate Placement of an ALIF Plate: Comparison of Pullout Strength*”.

Poster presentation at the ISASS13 Annual meeting, Vancouver, BC, Canada. March 3-5, 2013

Chen BY, Williams P, **Cheng WK**. “*Retrospective Analysis of Survivorship and Clinical Outcomes after Multi-level Anterior Lumbar Reconstruction: ALIF versus Hybrid Fusion*”.

Poster presentation at the ISASS13 Annual meeting, Vancouver, BC, Canada. March 3-5, 2013

Wayne K. Cheng MD, Ryan G. Knopper BS, Jared Kroger BS, Phillip T. Guillen MD, Nathaniel D. Wycliffe MD, Olumide A. Danisa MD. “*Independent Assessment of a New Pedicle Drilling Probe And Its Ability to Detect Pedicle Breach: A Cadaver Study*”

Poster presentation at the 29th Annual meeting of the AANS/CNS Section of Disorders of the Spine and Peripheral Nerves, Phoenix Arizona. March 6-9, 2013

Justin Brier-Jones BS, Jared Kroger BS, Pierre Beaufond BS, Serkan Inceoglu PhD, Victoria Maskiewicz PhD, **Wayne K Cheng MD**. “*Setting Time Comparison of Four Antimicrobial Laden Calcium Sulfate Plasters*”.

First Place in Clinical - Basic Science Category

Poster presentation at the 81st Annual Postgraduate Convention, Alumni Association School of Medicine of Loma Linda University. March 1-4, 2013

A. Husain, D.K. Palmer, R.M. Mehردادی, K.R. Criswell, D. Rios, **W.K. Cheng**. “*Cervical Transfacet Fixation: Safety and Accuracy of Open versus Percutaneous Approaches*”

Podium presentation at ISASS12 Conference, Barcelona, Spain. March 20-23, 2012

M. Mikhael, **W. Cheng**. “*Do preoperative HbA1c levels correlate with postoperative wound infection rates in spine surgery?*”

Podium presentation at ISASS12 Conference, Barcelona, Spain. March 20-23, 2012

Z.S. Jager, **W.K. Cheng**, A.E. Voss, D.K. Palmer, S. Inceoglu. “*Preventing Hardware Failure in Pedicle Subtraction Osteotomy Constructs: Pilot Biomechanical Analyses of Rod Configurations*”

Podium presentation at ISASS12 Conference, Barcelona, Spain. March 20-23, 2012

Robert Quigley, MD, Daniel Kyle Palmer, BS, Brent Forrest, BS, **Wayne K. Cheng, MD**. “*Why do Doctors Get Sued for Spinal Cord Injury? A Review of the Past 10 Years*”

Poster presentation at the 80th Annual Post-Graduate Convention, Loma Linda University, Loma Linda, California. March 4, 2012

Daniel K. Palmer, BS, **Wayne K. Cheng, MD**, David Rios, BS, Wyzsxc M. Patacxil, MS, Zachary S. Hadley, MD, Paul A. Williams, MS, Serkan Inceoglu, PhD. “*Maximizing Anterior Lumbar Interbody Fusion Plate Stability*”

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Poster presentation at the 80th Annual Post-Graduate Convention, Loma Linda University, Loma Linda, California. March 4, 2012

WK Cheng, MD. *“Future Biologic Therapies”*

Presented at The UC Irvine Spine Symposium, Irvine, California. June 3, 2011

Wayne K. Cheng, MD, Daniel Kyle Palmer, BS, and Vikram Jadhav, MD, PhD. *“Novel Indication for Posterior Dynamic Stabilization: Correction of Disc Tilt after Lumbar Total Disc Replacement”*

Poster presentation at the SAS11 Conference, Las Vegas, Nevada. April 26-29, 2011

WW Wong, MD, **WK Cheng, MD,** E Clarke, P Williams, MS, W Patacxil, D Rios, DK Palmer. *“Clinical Outcomes from a Prospective Study on Archus Total Facet Arthroplasty System for Treatment of Lumbar Stenosis with Degenerative Spondylolisthesis”*

Presented at SAS11 Conference, Las Vegas, Nevada. April 26-29, 2011

M Mikhael, MD, **W Cheng, MD.** *“The Accuracy of Midline Placement of Total Disc Arthroplasty of the Lumbar Spine Using Different Anatomic Landmarks Under Fluoroscopy”*

Poster/oral presentation at SAS11 Conference, Las Vegas, Nevada. April 26-29, 2011

Patacxil W M, Williams P A, Rios D A, Chen J C, Palmer D K, Inceoglu S, and **Cheng WK, MD.** *“Influence of Polyurethane Foam Density on ALIF Plate Pullout Strength”*

Poster presentation at ORS Annual Meeting, Long Beach, California. January 13-16, 2011

Ray A. Grijalva, MD; **Wayne Cheng, MD;** Vikram Jadhav, MD. *“Clinical Correlation of Magnetic Resonance Imaging Findings in Brain and Cervical Spine and the Hoffmann’s Sign”*

Podium presentation at the Cervical Spine Research Society 38th Annual Meeting, Charlotte, North Carolina. December 2-4, 2010

Adeel Husain, MD; Daniel Palmer, MS; David Rios, BS; Rosemina Mehrdady, MD; **Wayne Cheng, MD.** *“A Comparison of Open versus Percutaneous Cervical Transfacet Fixation”*

Podium presentation at the Cervical Spine Research Society 38th Annual Meeting, Charlotte, North Carolina. December 2-4, 2010

Richard D. Guyer MD, Kenneth A. Pettine MD, Reginald Q. Knight MD, Thomas A. Dimmig MD, Dom Coric MD, Paul C. McAfee MD, Charley Gordon MD, Andrew Cappuccino MD, Rudolph Buckley MD, Pierce Nunley MD, Fred Geisler PhD, Timothy A. Peppers MD, James Rappaport MD, Gary Dix MD, **Wayne K. Cheng MD,** Serena Hu MD, Yu-Po Lee MD, Fabien D. Bitan MD, Ravinder Bains MD. *“Direct Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Multicenter FDA Regulated Trial”*

Podium presentation at the NASS 25th Annual Meeting, Chicago, Illinois. November 2-5, 2010

Richard D. Guyer MD, Kenneth A. Pettine MD, Reginald Q. Knight MD, Thomas A. Dimmig MD, Dom Coric MD, Paul C. McAfee MD, Charley Gordon MD, Andrew Cappuccino MD, Rudolph Buckley MD, Pierce Nunley MD, Fred Geisler PhD, Timothy A. Peppers MD, James Rappaport MD, Gary Dix MD, **Wayne K. Cheng MD,** Serena Hu MD, Yu-Po Lee MD, Fabien D. Bitan MD, Ravinder Bains MD. *“Radiographic Comparison of Two Lumbar Total Disc Replacement Devices: Results from a Prospective, Randomized, Controlled Multicenter FDA-Regulated Trial”*

Podium presentation at the NASS 25th Annual Meeting, Chicago, Illinois. November 2-5, 2010

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Jonathan Allen, MD; Vikram Jadhav, MD, PhD; Farbod Asgarzadie, MD, Shyam Kishan, MD, Tim Peppers, MD, Paul Williams, MS, and **Wayne Cheng, MD.** “*Comparison Between Gearshift And Drill Techniques For Pedicle Screw Placement By Resident Surgeons*”

Podium presentation at the 58th Annual Piedmont Orthopedic Society meeting, White Sulphur Springs, West Virginia. May 5-9, 2010

Ray A. Grijalva, MD; **Wayne Cheng, MD**; Vikram Jadhav, MD. “*Clinical Correlation of Magnetic Resonance Imaging Findings in Brain and Cervical Spine and the Hoffmann’s Sign*”

Podium presentation at the 58th Annual Piedmont Orthopedic Society meeting, White Sulphur Springs, West Virginia. May 5-9, 2010

Wayne K. Cheng, MD. “*Surgical Treatment of Cervical Spine Fractures*”

Presented at the 29th Annual Harold B. Boyd Lectures, Orthopaedic Trauma, in conjunction with the 2009, 77th Annual Post-Graduate Convention, Loma Linda University, Loma Linda, California. March 8, 2009

Wayne K. Cheng, MD. “*ALIF Applications*”

Presented at Stryker Spine ALIF Lab, Las Vegas, Nevada. November 7, 2008

Wayne K. Cheng, MD. “*Cervical Spine and Low Back Injuries*”

Presented at Critical Management of High Risk Disease: “Don’t Kill Your Patient”, San Diego, California. May 2, 2008

Wayne K. Cheng, MD. “*Cervical Spine and Low Back Injuries*”

Critical Management of High Risk Disease: “Don’t Kill Your Patient”, Las Vegas, Nevada. October 19, 2007

Wayne K. Cheng, MD. “*Common Spinal Disorders: Diagnosis and Treatment*”

Presented at the North American Taiwanese Medical Association. June 30, 2007

Wayne K. Cheng, MD. “*Hybrid & Spanning External Fixation*”

Presented at the Residents’ Trauma Forum, Huntington Beach, California. September 17, 2006

Wayne K. Cheng, MD. “*Common Spinal Disorders*”

Presented at Spine Grand Rounds & Journal Club, Rancho Cucamonga, California. September 13, 2006

Wayne K. Cheng, MD. “*Complications of Artificial Disc*”

Presented at The 8th Annual Mammoth Lakes Symposium, Mammoth Lakes, California. September 9, 2006

Wayne K. Cheng, MD. “*Preliminary Results of Artificial Disc*”

Presented at The 8th Annual Mammoth Lakes Symposium, Mammoth Lakes, California. September 9, 2006

Wayne K. Cheng, MD. “*Anterior Lumbar Interbody Fusion – Surgical Techniques of Interbody Fusion*”

Presented at Neurosurgery Conference, Loma Linda University, Loma Linda, California. April 19, 2006

Wayne K. Cheng, MD. “*Surgical Aspects of Neck and Back Pain*”

Presented at International Church of Christ, Arcadia, California. April 2, 2006

Wayne K. Cheng, MD. “*Surgical Management of the C-Spine in Patients with Rheumatoid Arthritis*”

Presented at the 25th Annual Harold B. Boyd Lectures in conjunction with the 2005 Annual Post-Graduate

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Convention, Loma Linda University, Loma Linda, California. March 6, 2005

Wayne K. Cheng, MD. “*Common Spine Disorders*”

Presented at Workman’s Compensation Forum, San Bernardino, California. January 2003

William T. Long, MD and **Wayne K. Cheng, MD.** “*Surgical Management of One Hundred and Forty Gunshot Injuries to the Femoral Diaphysis*”

Presented at Charles R. Drew University Resident’s Research Symposium, Martin Luther King Hospital, Division of Orthopaedic Surgery, 2001.

Wayne K. Cheng, MD. “*Management of Polytrauma Patients*”

Presented at DePuy/ACE Complex Trauma Conference, Colorado. February 2001

William T. Long, MD, Darryl Willoughby, MD, and **Wayne Cheng, MD.** “*Treatment of Pelvic Fractures in Multiple Trauma Patients*”

Presented at Drew Trauma Symposium hosted by the Gladden Society, Martin Luther King Hospital, Division of Orthopaedic Surgery, 1999

Wayne K. Cheng, MS, William F. Wagner, MD, and Subrata Saha, PhD. “*A Biomechanical Evaluation of Different Knotting Techniques and Suture Materials*”, Loma Linda University Medical Center, 1995

Presented/published at the 37th Annual Biomaterial Society Conference, Shreveport, Louisiana

CERTIFICATIONS/TRAINING

Baxano

iO-Flex System Training

UCI Medical Center

Orange, California. September 22, 2010

LANX

2010 Bioskills Lab, Innovative Technology in Minimally Invasive Lumbar Fusion

Aspen Spinous Process Fixation System/Telluride MIS Spinal Fixation System

Las Vegas, Nevada. February 20, 2010

Experience the Breakthrough Power of “O”:

O-ARM® System with Navigation Technology Workshop

Las Vegas, Nevada. May 30-June 1, 2008

Advanced XLIF Training Course

NuVasive

San Diego, California. April, 2008

Oracle Spacer System - Director Lateral Approach

Synthes Spine

Henderson, Nevada. April, 2008

ProDisc-C Cervical Artificial Disc

Synthes Spine

Los Angeles, California. February, 2008

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ProDisc Lumbar Artificial Disc
Synthes Spine
Los Angeles, California. June, 2007

Medtronic Faculty Training
Prestige Cervical Disc System
Memphis, Tennessee. March, 2007
Operative Treatment of Acetabular Fractures
AAOS 2007 Annual Meeting
San Diego, California. February 2007

Triage Medical Percutaneous Lumbar
Stabilization Procedure
Hands-on Cadaver Training Course
Irvine, California. December 2006

MESA Spinal System
Deformity Study Group
Baltimore, Maryland. June 2006

Trans-1 AxiaLIF Hands-on Cadaver Lab
Stryker Orthopaedics
Loma Linda, California. April 2006

X-STOP Training Course
Dallas, Texas. January 2006

Dynesys Dynamic Stabilization Workshop
St. John's Health Center
Santa Monica, California. April 2005

Charite` Artificial Disc Training
Cincinnati, Ohio. February 2005

Minimally Invasive Spine Techniques
Barrow Neurological Institute
Phoenix, Arizona. May 2003

Minimal Access System
Northwestern University, Feinberg School of Medicine
Chicago, Illinois. April 2003

Surgical Prospectives on Chronic Pain
Westminster, Colorado. March 2003

Spine Education Summit
Vail, Colorado. March 2003

Advanced Concepts in Anterior Scoliosis Treatment (Endoscopic and Open Treatment)

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Half Moon Bay, California. February 2003

Inflatable Bone Tamp Technology course
Stanford University School of Medicine
Palo Alto, California. December 2002

Endoscopic/Atraumatic Spine Fusion System
Kerlan and Jobe Sports Medicine Clinic
Los Angeles, California. December 2002

Intradiscal Electro Thermal Therapy
Practical Anatomy Workshop
St. Louis, Missouri. October 2002

Microvascular course
Loma Linda University School of Medicine
Loma Linda, California. August 2002

Minimal Invasive Spine Surgery
St. Louis University School of Medicine
St. Louis, Missouri. April 2002

Advanced Techniques in Cervical Spine Decompression and Stabilization
St. Louis University School of Medicine
St. Louis, Missouri. January 2002

PRECEPTORSHIP

Endius Endoscopic Spine Fusion System
Sarasota, Florida, July 2003

X-Tube Assisted Spine Fusion System
Los Angeles, California, June 2003

EMPLOYEEMENT HISTORY

ORTHOPEDIC ATTENDING	LOMA LINDA UNIVERSITY	SEP2002 – JUN 2015
PRESIDENT	BONES AND SPINE SURGERY INC	JUN 2015 - PRESENT