

CURRICULUM VITAE

Jonathan N. Grauer, MD

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Contact Information:

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School: Yale School of Medicine

Education:

08/1988 - 05/1992 BS, Tufts University, Biology, Medford, MA
08/1992 - 05/1997 MD, Yale School of Medicine, New Haven, CT
08/2014 - 05/2015 Yale School of Management, Emerging Leaders Program for Yale Medical Group, New Haven, CT
08/2015 - 05/2016 Yale School of Management, Advanced Leaders Program for Yale Medical Group, New Haven, CT

Career/Academic Appointments:

07/1997 - 06/1998 Intern, Surgery, Yale New Haven Hospital, New Haven, CT
07/1998 - 06/2002 Resident, Orthopaedic Surgery, Yale-New Haven Hospital, New Haven, CT
07/2001 - 06/2002 Instructor, Orthopaedics and Rehabilitation, Yale School of Medicine, New Haven, CT
07/2002 - 06/2003 Clinical Instructor, Orthopaedics and Rehabilitation, Yale School of Medicine, New Haven, CT
08/2002 - 07/2003 Fellow, Spine Surgery, Thomas Jefferson University, Philadelphia, PA
09/2003 - 06/2007 Assistant Professor, Pediatrics, Yale School of Medicine, New Haven, CT
09/2003 - 06/2007 Assistant Professor, Orthopaedics and Rehabilitation, Yale School of Medicine, New Haven, CT
07/2007 - 07/2015 Associate Professor on Term, Orthopaedics and Rehabilitation, Yale School of Medicine, New Haven, CT
07/2007 - 06/2015 Associate Professor on Term, Pediatrics, Yale School of Medicine, New Haven, CT
07/2015 - 06/2020 Professor, General Pediatrics, Yale School of Medicine, New Haven, CT
07/2015 - Present Professor, Orthopaedics and Rehabilitation, Yale School of Medicine, New Haven, CT
09/2017 - 09/2019 Interim Chair, Orthopaedics and Rehabilitation, Yale School of Medicine, New Haven, CT

01/2020 - 06/2029 Associate Dean, Office of the Dean (YSM), Yale School of Medicine, New Haven, CT

Administrative Positions:

2003 - 2017 Co-director Orthopaedic Spine Service, Orthopaedics & Rehabilitation, Yale School of Medicine, New Haven, CT

2012 - 2021 Co-Director, Yale New Haven Hospital Spine Center, Yale New Haven Hospital, New Haven, CT

2015 - 2020 Spine Fellowship Director, Orthopaedics & Rehabilitation, Yale School of Medicine, New Haven, CT

2016 - 2017 Vice Chair of Clinical Research and Director of Information Systems, Orthopaedics & Rehabilitation, Yale School of Medicine, New Haven, CT

2017 - 2019 Interim Chair, Orthopaedics & Rehabilitation, Yale School of Medicine, New Haven, CT

2017 - 2019 Interim Chief, Orthopaedics, Yale New Haven Hospital, New Haven, CT

2017 - Present Director of Orthopaedic Spine Service, Orthopaedics & Rehabilitation, Yale School of Medicine, New Haven, CT

2019 - 2021 Vice Chair of Clinical Affairs, Orthopaedics & Rehabilitation, Yale School of Medicine, New Haven, CT

2020 - Present Associate Dean, Faculty Affairs, Yale School of Medicine, New Haven, CT

2024 - Present Associate Vice-Chair Research, Orthopaedics & Rehabilitation, Yale School of Medicine, New Haven, CT

Board Certification:

2005 - 2016 AB of Orthopaedic Surgery, Orthopaedic Surgery

2016 - 2025 AB of Orthopaedic Surgery, Orthopaedic Surgery, recertification

Professional Honors & Recognition:

International/National/Regional

1991 Paul A Warren Award in Genetics, Tufts University

1992 Brown Scholarship Award for Promise in Scientific Research, Tufts University

1992 Highest departmental honors (Biology), Tufts University

1992 Summa cum laude, Tufts University

1992 Phi Beta Kappa, Tufts University

2000 Young Investigator Award, Spine Journal

2003 Fielding Resident / Fellow Research Award, 2nd Place, Cervical Spine Research Society

2003 Basic Science Presentation Award, Depuy Conference

2003 Scientific Presentation Award, 1st Place, Stryker Spine Surgery and Practice Meeting

2014 Achievement Award, American Academy of Orthopaedic Surgeons

2015 Achievement Award, American Academy of Orthopaedic Surgeons

- 2016 Achievement Award, American Academy of Orthopaedic Surgeons
- 2016 Best Paper about Disc Replacement and Socioeconomics for “Missing data may invalidate spine surgery database papers” (Basques BA, Lukasiewicz AM, Samuel AM, Webb ML, Bohl DD, Grauer JN), North American Spine Society
- 2016 Value Abstract Award for “Surgical versus nonsurgical treatment for cervical radiculopathy: a cost-effectiveness analysis” (Ghogawala Z, Grauer JN, Harrop JS, Hilibrand AS, Rihn JA), North American Spine Society
- 2017 Achievement Award, American Academy of Orthopaedic Surgeons
- 2018 Achievement Award, American Academy of Orthopaedic Surgeons
- 2018 Sparq Center for Innovation Award, Yale New Haven Health
- 2018 Best Paper Award for “Comparison of outcomes of hemiarthroplasty to total hip arthroplasty in matched geriatric hip fracture populations” (Haynes MS, Ondeck NT, Ottesen TD, Malpani R, Alder KD, Grauer JN), Association of Bone and Joint Surgeons Annual Meeting
- 2018 Timothy L Stephens, Jr MD Research Symposium Award, 1st place, for “The effects of preoperative dementia and postoperative delirium on 30-day postoperative mortality in geriatric hip fracture patients” (Haynes MS, Alder KD, Toombs C, Rubin LE, Grauer, JN), National Medical Association Convention
- 2019 Achievement Award, American Academy of Orthopaedic Surgeons
- 2019 Top poster in shoulder and elbow category for “Underweight patients are the greatest risk body mass index group for perioperative adverse events following total shoulder arthroplasty” (Ottesen TD, Hsiang WR, Malpani R, Varthi AG, Rubin LE, Grauer JN), American Orthopedic Association
- 2020 Top poster in adult reconstruction hip category for “Valuing the discrepancy in actual operative time vs. Medicare operative time estimates for primary and revision total hip arthroplasty” (Moore HG, Dussik C, Grauer JN), American Orthopaedic Association
- 2021 Top poster in spine category for “Lumbar MRI vertebral bone quality (VBQ) score: comparison to CT assessment and possible simplification” (Moore HG, Burroughs PJ, Berson ER, Kirwin DS, Rankin KA, Sherman JJZ, Halperin SJ, Gardezi M, Sabatino MJ, Grauer JN), American Orthopaedic Association
- 2021 Best Adult Paper Award for “Primary total hip arthroplasty in patients with versus without cerebral palsy: a Matched comparison of 90-day adverse events and 5-year implant survival” (Moore HG, Gardezi M, Burroughs PJ, Rubin LE, Frumberg DB, Grauer JN), American Academy for Cerebral Palsy and Developmental Medicine
- 2022 Sigma Xi Scientific Research Honor Society
- 2023 Top 100 poster category for “Total hip arthroplasty in patients with Marfan syndrome: Adverse events and 5-year revision rates” (Day W, Jayaram RH, Rubin LE, Grauer JN), American Association of Hip and Knee Surgeons
- 2023 Best presentation by a resident or fellow H. Kirk Watson, MD Founder's Award for “Documented cannabis use is a risk factor for nonunion after nonoperative management of scaphoid fractures: A retrospective review of 159,998 patients”

(Pathak N, Ratnaswami PP, Oghenesume OP, Halim A, Luo X, Grauer JN), New England Hand Society Meeting
2024 Best podium presentation award for “Superior postoperative outcomes following total knee arthroplasty are associated with as short as one-month of semaglutide use for patients with type II diabetes” (Seddio AE, Vasudevan RS, Gouzoulis MJ, Ansah-Twum JK, Rubin LE, Grauer JN), Northeast Arthroplasty Conference

Yale University/Yale School of Medicine/Hospital System

1996 Farr Scholar Award for performance and leadership, Yale School of Medicine
1996 Student Research Award, Yale Department of Orthopaedics and Rehabilitation
1997 Cum laude, Yale School of Medicine
1997 Alpha Omega Alpha, Yale School of Medicine
2002 Resident Research Award, Yale Department of Orthopaedics and Rehabilitation
2009 Wayne O. Southwick University Teaching Award, Yale Department of Orthopedics and Rehabilitation
2018 MINT (MBA Impact Investing Network & Training), Yale University
2020 Leonard Tow Humanism in Medicine Award nominee, Yale School of Medicine
2024 John N Forrest Jr, MD Prize for Mentorship in Student Research nominee, Yale School of Medicine
2024 Multiple awards to support students performing research in Grauer laboratory, Yale School of Medicine

Grants/Clinical Trials History:

Current Clinical Trials

Agency: Spinal Kinetics, Inc.
I.D.#: 2000028676
Title: M6-C Artificial Cervical Disc IDE Post-Approval Study
P.I.: Peter G. Whang
Role: Sub-Investigator
Percent effort: N/A
Total costs: -
Project period: 09/16/2020 - ongoing

Past Grants

Agency: New Haven Foundation
I.D.#: Department based
Title: Departmental database research support
P.I.: Jonathan Grauer
Role: Principle Investigator
Percent effort: N/A
Total costs: \$17,500.00
Project period: 04/01/2022

Agency: Stryker Biotech
I.D.#: No formal ID number provided by Stryker
Title: Defining the role of OP-1 in posterolateral spine fusions using a rabbit model
P.I.: Jonathan Grauer
Role: Co-Investigator
Percent effort: 5%
Total costs: \$44,204.00
Project period: 04/01/1999 - 07/31/2002

Past Clinical Trials

Agency: Yale University School of Medicine
I.D.#: 1401013232MRR
Title: Utilization of CT Imaging Following Spine Surgery
P.I.: Jonathan N Grauer
Role: Principal Investigator
Percent effort: N/A
Total costs: -
Project period: 04/16/2014 - 06/08/2018

Agency: Yale University School of Medicine
I.D.#: 1403013561
Title: Investigation of the Biomechanics of Bracing for Adolescent Idiopathic Scoliosis
P.I.: Jonathan N Grauer
Role: Principal Investigator
Percent effort: N/A
Total costs: -
Project period: 04/17/2014 - 03/04/2015

Agency: Spinal Kinetics, Inc.
I.D.#: 1408014403
Title: Restore CLINICAL TRIAL
P.I.: Peter G. Whang
Role: Sub-Investigator
Percent effort: N/A
Total costs: -
Project period: 08/20/2014 - 07/18/2022

Agency: Yale University School of Medicine
I.D.#: 1502015325EXEMPT
Title: Cost of Treatment for Radiculopathy Survey
P.I.: Jonathan N Grauer
Role: Principal Investigator
Percent effort: N/A

Total costs: -
Project period: 02/23/2015

Agency: Yale University School of Medicine
I.D.#: 1502015324EXEMPT
Title: Postoperative Adverse Event Survey
P.I.: Jonathan N Grauer
Role: Principal Investigator
Percent effort: N/A
Total costs: -
Project period: 02/25/2015

Agency: Orthofix Inc.
I.D.#: 1506016073
Title: Odontoid Fracture Study Treated With Pulsed Electromagnetic Fields
Role: Sub-Investigator
Percent effort: N/A
Total costs: -
Project period: 07/28/2015 - 10/26/2018

Agency: Yale University School of Medicine
I.D.#: 1601017021NHSR
Title: Assessing contamination of Surgical Suction Tips
P.I.: Jonathan N Grauer
Role: Principal Investigator
Percent effort: N/A
Total costs: -
Project period: 01/07/2016

Pending Clinical Trials

Agency: Yale University School of Medicine
I.D.#: 1406014107
Title: Utility of plain radiography in orthopaedic surgery
P.I.: Jonathan N Grauer
Role: Principal Investigator
Percent effort: N/A
Total costs: -
Project period: 06/18/2014 - ongoing

Agency: Yale University School of Medicine
I.D.#: 2000028320EXEMPT
Title: Effects of COVID-19 on Orthopedic Residency Applicants
P.I.: Jonathan N Grauer
Role: Principal Investigator

Percent effort: N/A
Total costs: -
Project period: 05/29/2020 - ongoing

Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale: International/National

1. "Osteoinductive technologies: are all created equal?". Emerging Technologies in Spinal Surgery Conference (DePuy AcroMed Sponsored), Washington, DC, February 2002. (Lecture)
2. "Autograft vs. Allograft vs. BMP: Is the Jury Out". Surgical Management of Spondylosis: Fusion and Emerging Nonfusion Technologies (Synthes Sponsored), Providence, RI, February 2003. (Lecture)
3. "State of the art: BMPs and other biologics for spinal fusion". Controversies in Lumbar Spine Surgery Symposium II (DePuy AcroMed Sponsored), Las Vegas, NV, February 2003. (Lecture)
4. "Spinal cord monitoring". Contemporary management of spinal disorders: decision making for new technology, Palm Beach, FL, February 2004. (Lecture)
5. "Discography revisited". Eastern Orthopaedic Association, Río Grande, Río Grande, February 2004. (Lecture)
6. "Anterior cervical anatomy and approaches". All Pathology Spinal Techniques Cadaver Workshop (DePuy Acromed Sponsored), Charleston, SC, February 2004. (Lecture)
7. "Latest technology for enhancing bone healing: platelet gels and marrow cells". Contemporary management of spinal disorders: decision making for new technology, Palm Beach, FL, February 2004. (Lecture)
8. "Posterior non-fusion devices". Thomas Jefferson Spine Fellows Symposium, Chesapeake Beach, MD, February 2004. (Lecture)
9. "Osteobiologics: a spine perspective". Grand Rounds, Lahey Clinic, Boston, MA, February 2004. (Lecture)
10. "Smoking, nicotine, and the spine". Annual Contemporary Update on Disorders of the Spine, Whistler, BC, February 2005. (Lecture)
11. "Cervical spine complications". Stryker Spine: Essentials in Early Practice, Cervical spine complications, Las Vegas, NV, January 2014. (Lecture)
12. "Understanding national database studies in orthopaedics". Thomas Jefferson Spinal Fellows Symposium, Understanding national database studies in orthopaedics, Newport, RI, January 2014. (Lecture)
13. "How to do research as a medical student". American Academy of Orthopaedic Surgeons Medical Student Symposium, How to do research as a medical student, Orlando, FL, January 2016. (Lecture)
14. "How to do research as a medical student". American Academy of Orthopaedic Surgeons Medical Student Symposium, How to do research as a medical student, Orlando, FL, January 2016. (Lecture)
15. "Review of research studies". Stryker Evidence Based Medicine Spine Surgery Symposium, Review of research studies, Chicago, IL, January 2016. (Lecture)
16. "Dural tears and infection". Stryker Spring Deformity Course, Dural tears and infection, Miami, FL, January 2016. (Lecture)
17. "The value of biologics in spine care". Stryker Spring Deformity Course, The value of biologics in spine care, Miami, FL, January 2016. (Lecture)

18. "Evolving use of big data in orthopaedic research". Brigham and Women's Hospital Grand Rounds, Evolving use of big data in orthopaedic research, Boston, MA, January 2016. (Lecture)
19. "Update on national database studies in spine surgery". Thomas Jefferson Spinal Fellows Symposium, Update on national database studies in spine surgery, Newport, RI, January 2016. (Lecture)
20. "Advantages and limitations of national database research in orthopaedics". Grand Rounds at Rothman Institute at Thomas Jefferson University, Advantages and limitations of national database research in orthopaedics, Philadelphia, PA, January 2016. (Lecture)
21. "The ACS NSQIP registry". Spine Summit 2017, Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, The ACS NSQIP registry, Las Vegas, NV, January 2016. (Lecture)
22. "Degenerative spondylolisthesis: surgical treatment options". Lumbar Spine Research Society Practical Anatomy and Surgical Education Course, Degenerative spondylolisthesis: surgical treatment options, St. Louis, MO, January 2017. (Lecture)
23. "Spondylolytic spondylolisthesis: current treatment trends". Lumbar Spine Research Society Practical Anatomy and Surgical Education Course, Spondylolytic spondylolisthesis: current treatment trends, St. Louis, MO, January 2017. (Lecture)
24. "Case presentations and discussion". Lumbar Spine Research Society Practical Anatomy and Surgical Education Course, Case presentations and discussion, St. Louis, MO, January 2017. (Lecture)
25. "Industry payments to orthopaedic spine surgeons reported by the open access database". Thomas Jefferson Spinal Fellows Symposium, Industry payments to orthopaedic spine surgeons reported by the open access database, Newport, RI, January 2019. (Lecture)
26. "Guest speaker: Big data research and related lessons". Dartmouth, Orthopaedic Surgery, Guest speaker: Big data research and related lessons, Senior Research Day, January 2020. (Lecture)

Peer-Reviewed Presentations Given at Meetings Not Affiliated With Yale:

International/National

1. Redlich CA, **Grauer JN**, Van Bennekum AM, Clever S, Ponn RB, Blaner WS. Characterization of Vitamin A, carotenoid, and alpha-tocopherol levels in human lung and pulmonary macrophages. American Thoracic Society, Seattle, WA, May 1995. (Poster Presentation)
2. Wolfe SW, Swigart CR, **Grauer JN**, Panjabi MM. Supplemental fragment fixation enhances stability of wrist external fixation. American Society for Surgery of the Hand, Nashville, TN, September 1996. (Poster Presentation)
3. **Grauer JN**, Panjabi MM, Cholewicki J, Nibi K, Dvorak J. Whiplash injury mechanism produces bi-phasic curvature of the neck with hyperextension of lower levels. American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997. (Poster Presentation)
4. Nibu K, Cholewicki J, **Grauer JN**, Panjabi MM, Babat LB, Kothe R, Dvorak J. The dynamic elongation of the vertebral artery during whiplash: an in vitro model. American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997. (Poster Presentation)
5. **Grauer JN**, Erulkar JS, Patel TCh, Panjabi MM. Kinematic evaluation of the New Zealand white rabbit lumbar spine. American Association of Neurological Surgeons / CNS Section on the Spine, Palm Springs, CA, February 2000. (Oral Presentation)

6. **Grauer JN** , Erulkar JS, Patel TCh, Panjabi MM. Kinematic evaluation of the New Zealand white rabbit lumbar spine. International Society for the Study of the Lumbar Spine, Adelaide, SA, April 2000. (Poster Presentation)
7. **Grauer JN** , Patel TCh, Erulkar JS, Troiano NW, Panjabi MM. OP-1 produces spinal fusion in posterolateral fusion model. International Society for the Study of the Lumbar Spine, Adelaide, SA, April 2000. (Poster Presentation)
8. Erulkar JS, **Grauer JN** , Patel TCh, Panjabi MM. The effect of posterolateral fusions on physiologic motion in the New Zealand white rabbit. International Society for the Study of the Lumbar Spine, Adelaide, SA, April 2000. (Poster Presentation)
9. Patel TCh, Erulkar JS, **Grauer JN** , Troiano NW, Friedlaender GE. Nicotine inhibits posterolateral lumbar fusions: a histologic examination. International Society for the Study of the Lumbar Spine, Adelaide, SA, April 2000. (Oral Presentation)
10. Patel TCh, Erulkar JS, **Grauer JN** , Troiano NW, Panjabi MM, Friedlaender GE. Nicotine inhibits posterolateral lumbar fusions: a histologic examination. Association of Bone and Joint Surgeons, San Antonio, TX, May 2000. (Oral Presentation)
11. **Grauer JN** , Patel TCh, Erulkar JS, Troiano NW, Panjabi MM. OP-1 produces spinal fusion in posterolateral fusion model. Spine Across the Sea, Wailuku, HI, July 2000. (Oral Presentation)
12. **Grauer JN** , Patel TCh, Erulkar JS, Troiano NW, Panjabi MM. OP-1 produces spinal fusion in posterolateral fusion model. Worldspine, Berlin, BE, September 2000. (Oral Presentation)
13. Patel TCh, Erulkar JS, **Grauer JN** , Troiano NW, Panjabi MM, Friedlaender GE. Nicotine inhibits posterolateral lumbar fusions: a histologic examination. Worldspine, Berlin, BE, September 2000. (Oral Presentation)
14. Patel TCh, Erulkar JS, **Grauer JN** , Troiano NW, Panjabi MM, Friedlaender GE. Nicotine inhibits posterolateral lumbar fusions. North American Spine Society, New Orleans, LA, October 2000. (Oral Presentation)
15. White A, Weinstein M, Patel T , **Grauer JN** , Horowitz M, Friedlaender GE. Autologous growth factor gene expression following lumbar spinal arthodesis in a rabbit model. International Society for the study of the lumbar spine, Edinburgh, Scotland, June 2001. (Oral Presentation)
16. Sethi P, Miranda J, **Grauer JN** , Kadiyala S, Patel T, Friedlaender GE. Enhancement of Lumbar Fusion with platelet rich proteins. International Society for the Study of the Lumbar Spine, Edinburgh, Scotland, June 2001. (Poster Presentation)
17. Bernstein RA, Brown K, **Grauer JN** . Prospective study of coralline hydroxyapatite and internal fixation for comminuted intraarticular distal radius fractures. American Society for Surgery of the Hand, Baltimore, MD, October 2001. (Poster Presentation)
18. Bomback DA, Lugo R, **Grauer JN** , Troiano NW, Patel TC , Friedlaender GE. Comparison of posterolateral lumbar fusion rates of Grafton and OP-1 in an athymic rat model. Southern Orthopaedic Association Resident and Fellow Conference, Washington, DC, November 2002. (Oral Presentation)
19. Bomback DA, **Grauer JN** , Lugo R, Troiano NW, Patel TC, Friedlaender GE. Comparison of posterolateral lumbar fusion rates of Grafton and OP-1 in athymic rat model. Spine Surgery and Practice (Stryker Sponsored), Little Cottonwood Creek Valley, UT, March 2003. (Oral Presentation)
20. **Grauer JN** , Bomback DA, Lugo R, Troiano NW, Patel TC, Friedlaender GE. Posterolateral lumbar fusion in athymic rats; characterization of model. International Society for the Study of the Lumbar Spine, Vancouver, BC, May 2003. (Poster Presentation)

21. Kwon BK, Berta SC, Daffner S, Vaccaro AR, Hilibrand AS, **Grauer JN** , Beiner JM, Albert TJ. Radiographic analysis of transforminal lumbar interbody fusion of the treatment if adult isthmic spondylolisthesis. International Society for the Study of the Lumbar Spine, Vancouver, BC, May 2003. (Poster Presentation)
22. **Grauer JN** , Vaccaro AR, Kato M, Kwon BK, Beiner JM, Patel T, Hilibrand AS, Chiba K, Albert TJ. Development of a New Zealand white rabbit model of spinal pseudarthrosis repair and evaluation of the potential role of OP-1 to overcome pseudarthrosis. DePuy Fellows' Course, Boston, MA, June 2003. (Oral Presentation)
23. Pierce AR, **Grauer JN** , Nash T, Chouinard L, St. Pierre A, Toth CA. Distribution of 125OP-1 outty after posterolateral lumbar spine fusion in the New Zealand white rabbit. Worldspine, Rio de Janeiro, RJ, July 2003. (Oral Presentation)
24. **Grauer JN** , Bomback DA, Lugo R, Troiano NW, Patel TC, Friedlaender GE. Posterolateral lumbar fusions in athymic rats. Worldspine, Chicago, IL, August 2003. (Oral Presentation)
25. Bomback DA, **Grauer JN** , Lugo R, Troiano NW, Patel TC, Friedlaender GE. Comparison of posterolateral lumbar fusion rates of Grafton and OP-1 in an athymic rat model. Worldspine, Chicago, IL, August 2003. (Oral Presentation)
26. **Grauer JN** , Vaccaro AR, Kato M, Kwon BK, Beiner JM, Patel T, Hilibrand AS, Chiba K, Albert TJ. Development of a New Zealand white rabbit of spinal pseudarthrosis repair and evaluation of the potential role of OP-1 to overcome pseudarthrosis. Cervical Spine Research Society , Scottsdale, AZ, December 2003. (Oral Presentation)
27. White AP, Maak T, Prince D, Hilibrand AS, Albert TJ, Vaccaro AR, Chiba K, Kato M, **Grauer JN** . Gene expression associated with pseudarthrosis repair by OP-1 or autograft in nicotine-exposed rabbit model. International Conference of Bone Morphogenetic Proteins, Nagoya, Aichi, September 2004. (Poster Presentation)
28. Bomback DA, **Grauer JN** , Lugo R, Troiano NW, Patel TC, Friedlaender GE. Comparison of posterolateral lumbar fusion rates of Grafton and OP-1 in an athymic rat model. North American Spine Society, San Diego, CA, October 2004. (Oral Presentation)
29. White AP, Maak T, Prince D, Hilibrand AS, Albert TJ, Vaccaro AR, Chiba K, Kato M, **Grauer JN** . Gene expression associated with pseudarthrosis repair by OP-1 or autograft in a nicotine-exposed rabbit model. North American Spine Society, Chicago, IL, October 2004. (Oral Presentation)
30. Bomback DA, **Grauer JN** , Lugo R, Troiano NW, Patel TC, Friedlaender GE. Comparison of posterolateral lumbar fusion rates of Grafton and OP-1 in an athymic rat model. Orthopaedic Trauma Association, Salt Lake City, UT, October 2004. (Poster Presentation)
31. Pearce AR, **Grauer JN** , Nash T, Chouinard L, St. Pierre A, Toth CA. Distribution of 125OP-1 putty after posterolateral lumbar spine fusion in the New Zealand white rabbit. Orthopaedic Research Society, Washington, DC, February 2005. (Poster Presentation)
32. Biyani A, **Grauer JN** , Patel T, Vishnubhotla SL, Matyasch AJ , Vadapalli S, Cowgill I, Sairyo K, Goel VK. The effect of disc arthroplasty design on lumbar kinematics and loading as seen in a finite element model analysis. Orthopaedic Research Society, Washington, DC, February 2005. (Poster Presentation)
33. Goel VK, Patel T, Biyani A, **Grauer JN** , Vishnubhotla SL, Matyasch AJ, Vadapalli S, Panjabi MM. Load vs. displacement control testing protocols for evaluating artificial disc mechanics. Orthopaedic Research Society, Washington, DC, February 2005. (Poster Presentation)

34. White AP, Maak T, Prince D, Hilibrand AS, Albert TJ, Vaccaro AR, Chiba K, Kato M, **Grauer JN** . Gene expression associated with pseudarthrosis repair by OP-1 or autograft in a nicotine-exposed rabbit model. International Society for the Study of the Lumbar Spine, New York, NY, May 2005. (Oral Presentation)
35. Goel VK, Patel T, Biyani A, **Grauer JN** , Vishnubhotla SL, Matyasch AJ, Vadapalli S, Panjabi MM. Load vs. displacement control testing protocols for evaluating artificial disc mechanics. International Meeting on Advanced Spine Techniques (IMAST), Banff, AB, July 2005. (Other)
36. Patel T, **Grauer JN** , Vishnubhotla SL, Matyasch AJ, Vadapalli S, Shaw MN, Cowgill I, Sairyo K, Goel VK, Serhan H. Comparative biomechanics of two different fusion procedures and Charite disc replacement across the L5-S1 segment. International Meeting on Advanced Spine Techniques (IMAST), Banff, AB, July 2005. (Other)
37. Magit D, Maak T, Hammouri Q, Rahpael B, Albert T, **Grauer JN** . Healos/ rhGDF-5 induces fusion in a rabbit posterolateral lumbar fusion model. International Meeting on Advanced Spine Techniques (IMAST), Banff, AB, July 2005. (Other)
38. Biyani A, Patel T, **Grauer JN** , Vishnubhotla SL, Matyasch AJ, Vadapalli S, Cowgill I, Sairyo K, Goel VK. The effect of disc arthroplasty design on lumbar kinematics and loading as seen in a finite element model analysis. International Meeting on Advanced Spine Techniques (IMAST), Banff, AB, July 2005. (Other)
39. Shah R, Albert T, Vaccaro AR, Hilibrand A, Brugel-Sanchez V, **Grauer JN** . Industry support and correlation to study outcome. International Meeting on Advanced Spine Techniques (IMAST), Banff, AB, July 2005. (Other)
40. Shah R, Albert T, Vaccaro A, Hilibrand A, Brugel-Sanchez V, **Grauer JN** . Industry support and correlation to study outcome. Scoliosis Research Society, Miami, FL, October 2005. (Oral Presentation)
41. Magit D, Maak T, Hammouri Q, Rahpael B, Albert T, **Grauer JN** . Healos/ rhGDF-5 induces fusion in a rabbit posterolateral lumbar fusion model. Scoliosis Research Society, Miami, FL, October 2005. (Oral Presentation)
42. White AP, Maak T, Prince D, Hilibrand AS, Albert TJ, Vaccaro AR, Chiba K, Kato M, **Grauer JN** . Gene expression associated with pseudarthrosis repair by OP-1 or autograft in a nicotine-exposed rabbit model. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2006. (Poster Presentation)
43. Lawrence JP, Waked S, Gillon T, White AP, Spock C, Biswas D, Albert TJ, **Grauer JN** . Evaluation of the Efficacy of rhBMP-2 to Overcome Pseudarthrosis in a New Zealand White Rabbit Posterolateral Fusion Model. Scoliosis Research Society, Monterey, CA, September 2006. (Oral Presentation)
44. Lawrence JP, Waked S, Gillon T, White AP, Spock C, Biswas D, Albert TJ, **Grauer JN** . Evaluation of the Efficacy of rhBMP-2 to Overcome Pseudarthrosis in a New Zealand White Rabbit Posterolateral Fusion Model. North American Spine Society, Seattle, WA, September 2006. (Poster Presentation)
45. White AP, Biswas D, Haims A, Smart LR, **Grauer JN** . The utility of flexion – extension radiographs in evaluation of the degenerative cervical spine. North American Spine Society, Seattle, WA, September 2006. (Oral Presentation)
46. Hammouri Q, Haims A, Alqaqa A, **Grauer JN** . Evaluation of the utility of dynamic radiographs in the evaluation of the degenerative lumbar spine. North American Spine Society, Seattle, WA, September 2006. (Oral Presentation)

47. Lawrence JP, Waked S, Gillon T, White AP, Spock C, Biswas D, Albert TJ, **Grauer JN** . Evaluation of the Efficacy of rhBMP-2 to Overcome Pseudarthrosis in a New Zealand White Rabbit Posterolateral Fusion Model. American Academy of Orthopaedic Surgery, San Diego, CA, February 2007. (Poster Presentation)
48. Ritter JL, Pawha P, Strugar JG, **Grauer JN** , Johnson MH. Beware the Hypervascular Spinal Lesion: A Guide to Imaging Clues to Consider Before Spinal Surgery or Spine Biopsy. American Society of Spine Radiology, Marco Island, FL, February 2007. (Oral Presentation)
49. Hammouri Q, Haims A, Alqaqa A, **Grauer JN** . Evaluation of the utility of dynamic radiographs in the evaluation of the degenerative lumbar spine. International Meeting on Advanced Spinal Techniques, Paradise Island, Bahamas- ELECTRONIC POSTER, July 2007. (Other)
50. Schinnerer KA, Katz LD, **Grauer JN** . MRI finding of fluid in facet joints predicts subtle instability. International Meeting on Advanced Spinal Techniques, Paradise Island, Bahamas- ELECTRONIC POSTER, July 2007. (Other)
51. Hammouri QM, Simpson AK, Rehtine G, **Grauer JN** . Routine imaging in the spine practice: A questionnaire study of the utilization of radiographs in the evaluation of spine complaints. International Meeting on Advanced Spinal Techniques, Paradise Island, Bahamas- ELECTRONIC POSTER, July 2007. (Other)
52. Whang PG, Simpson A, Rehtine G, **Grauer JN** . Current Trends in Total Disc Replacement: A Questionnaire Study of Surgeon Practices and Attitudes Regarding Cervical and Lumbar Disc Arthroplasty. International Meeting on Advanced Spinal Techniques, Paradise Island, Bahamas- ELECTRONIC POSTER, July 2007. (Other)
53. Hammouri QM, Simpson AK, Rehtine G, **Grauer JN** . Routine imaging in the spine practice: A questionnaire study of the utilization of radiographs in the evaluation of spine complaints. International Meeting on Advanced Spinal Techniques, Paradise Island, Bahamas- ELECTRONIC POSTER, July 2007. (Other)
54. Hammouri Q, Haims A, Alqaqa A, **Grauer JN** . Evaluation of the utility of dynamic radiographs in the evaluation of the degenerative lumbar spine. International Meeting on Advanced Spinal , Paradise Island, Bahamas- ELECTRONIC POSTER, July 2007. (Other)
55. Schinnerer KA, Katz LD, **Grauer JN** . MRI finding of fluid in facet joints predicts subtle instability. International Meeting on Advanced Spinal Techniques, Paradise Island, Bahamas- ELECTRONIC POSTER, July 2007. (Other)
56. Whang PG, Simpson A, Rehtine G, **Grauer JN** . Current trends in total disc replacement: A questionnaire study of surgeon practices and attitudes regarding cervical and lumbar disc arthroplasty. International Meeting on Advanced Spinal Techniques, Nassau, New Providence, July 2007. (Poster Presentation)
57. Hammouri Q, Haims A, Alqaqa A, **Grauer JN** . Evaluation of the utility of dynamic radiographs in the evaluation of the degenerative lumbar spine. Eastern Orthopaedic Association and Southern Orthopaedic Association combined annual meeting, Victoria, BC, August 2007. (Oral Presentation)
58. Schinnerer KA, Katz LD, **Grauer JN** . MRI finding of fluid in facet joints predicts subtle instability. Eastern Orthopaedic Association and Southern Orthopaedic Association combined annual meeting, Victoria, BC, August 2007. (Other)
59. Whang PG, Simpson AK, Rehtine G, **Grauer JN** . Current trends in total disc replacement: A questionnaire study of surgeon practices and attitudes regarding cervical and lumbar disc

- arthroplasty. Eastern Orthopaedic Association and Southern Orthopaedic Association combined annual meeting, Victoria, BC, August 2007. (Other)
60. Waked W, Simpson AK, Miller C, Cwirka D, Magit D, **Grauer JN** . Questioning sterilization wrap inspections performed in the operating room; are they really valid?. Eastern Orthopaedic Association and Southern Orthopaedic Association combined annual meeting, Victoria, BC, August 2007. (Oral Presentation)
 61. Hammouri QM, Simpson AK, Rehtine G, **Grauer JN** . Routine imaging in the spine practice: A questionnaire study of the utilization of radiographs in the evaluation of spine complaints. Eastern Orthopaedic Association and Southern Orthopaedic Association combined annual meeting, Victoria, BC, August 2007. (Other)
 62. Simpson AK, Miller CP, Whang PG, Lawrence J, Erickson B, **Grauer JN** . Evaluating the effect of rhBMP-2 on surgical site infections in a posterolateral lumbar fusion rabbit model. North American Spine Society, Austin, TX, October 2007. (Poster Presentation)
 63. Nassar A, Lee JY, Brodke D, Dailey A, Schwartz DG, **Grauer JN** , Rampersaud R, Arnold P, Vaccaro AR. Reliability of diagnosis and treatment decisions for traumatic cervical dislocation. North American Spine Society, Austin, TX, October 2007. (Oral Presentation)
 64. Simpson AK, Miller CP, Whang PG, Lawrence J, Erickson B, **Grauer JN** . Evaluating the effect of rhBMP-2 on surgical site infections in a posterolateral lumbar fusion rabbit model. North American Spine Society, Austin, TX, October 2007. (Poster Presentation)
 65. Simpson AK, Miller CP, Whang PG, Lawrence J, Erickson B, **Grauer JN** . Evaluating the effect of rhBMP-2 on surgical site infections in a posterolateral lumbar fusion rabbit model. Cervical Spine Research Society, San Francisco, CA, November 2007. (Oral Presentation)
 66. Whang PG, Simpson A, Rehtine G, **Grauer JN** . Current trends in total disc replacement: a questionnaire study of surgeon practices and attitudes regarding cervical and lumbar disc arthroplasty. Cervical Spine Research Society, San Francisco, CA, November 2007. (Poster Presentation)
 67. Simpson AK, Whang PG, Jonisch A, Hasims A, **Grauer JN** . The radiation exposure associated with cervical and lumbar spine radiographs. Cervical Spine Research Society, San Francisco, CA, November 2007. (Poster Presentation)
 68. Simpson AK, Biswas D, Emerson JW, Whang PG, **Grauer JN** . Quantifying the effects of age, gender, degeneration, and adjacent level of degeneration on cervical spine range of motion using multivariate analysis. Cervical Spine Research Society, San Francisco, CA, November 2007. (Poster Presentation)
 69. Simpson AK, Sabino J, Whang PG, Emerson JW, **Grauer JN** . Assessment of cervical foramen with oblique radiographs: The effect of film angle on foramen area and the ideal oblique imaging angle. Cervical Spine Research Society, San Francisco, CA, November 2007. (Poster Presentation)
 70. Arnold PM, Brodke DS, Rampersaud YR, Harrop J, Dailey AT, Shaffrey CI, **Grauer JN** , Dvorak MFS, Bono CM, Wilsey JT, Lee JY, Nassar A, Vaccaro AR. Reliability among neurosurgeons and orthopaedic surgeons in classifying cervical dislocation injuries and making assessment and treatment decisions: a multicenter study. Cervical Spine Research Society, San Francisco, CA, November 2007. (Oral Presentation)
 71. Simpson AK, Miller CP, Whang PG, Lawrence J, Erickson B, **Grauer JN** . Evaluating the effect of rhBMP-2 on surgical site infections in a posterolateral lumbar fusion rabbit model. American Academy of Orthopaedic Surgeons, San Francisco, CA, March 2008. (Oral Presentation)

72. Kiapour Am Gocl V, Lee C, **Grauer JN** , Serhan H. Finite element of biochemical changes of lumbar segment implanted with an anterior cervical disc after subsidence. American Society of Mechanical Engineers, Marco Island, FL, June 2008. (Oral Presentation)
73. DiPaola C, **Grauer JN** . Practice Patterns among spine specialists regarding metabolic bone disorder screening and treatment in spine fusion and low energy fracture patients. North American Spine Society , Toronto, ON, October 2008. (Poster Presentation)
74. Biswas D, Bible JE, Whang PG, **Grauer JN** . Sterility of C-arm fluoroscopy during spinal surgery. Eastern Orthopaedic Association, Las Vegas, NV, October 2008. (Poster Presentation)
75. Biswas D, Bible JE, Whang PG, **Grauer JN** . Sterility of C-arm fluoroscopy during spinal surgery. North American Spine Society, Toronto, ON, October 2008. (Poster Presentation)
76. Bible JE, Simpson AK, Emerson JW, Biswas D, **Grauer JN** . Quantifying the effects of degeneration and other patient factors on lumbar segmental range of motion using multivariate analysis. North American Spine Society, Toronto, ON, October 2008. (Poster Presentation)
77. Biswas D, Bible JE, Whang PG, **Grauer JN** . Radiation exposure with orthopaedic computed tomography scanning. North American Spine Society, Toronto, ON, October 2008. (Poster Presentation)
78. Bible JE, Biswas D, Miller CP, Whang PG, **Grauer JN** . Functional spinal range of motion during sixteen activities of daily living. North American Spine Society, Toronto, ON, October 2008. (Poster Presentation)
79. Bible JE, Biswas D, Whang PG, **Grauer JN** . Accuracy of continuous passive motion device measured by electrogoniometer. Eastern Orthopaedic Association, Las Vegas, NV, October 2008. (Oral Presentation)
80. Bible JE, Biswas D, Whang PG, **Grauer JN** . Sterility pf operating gowns during spinal surgery. Eastern Orthopaedic Association, Las Vegas, NV, October 2008. (Oral Presentation)
81. Biswas D, Bible JE, Whang PG, **Grauer JN** . Sterility of C-arm Fluoroscopy during spinal surgery. Cervical Spine Research Society , Austin, TX, December 2008. (Oral Presentation)
82. **Grauer JN** , Biswas D, Bible JE, Whang PG. Radiation exposure with orthopaedic computed tomography scanning. Cervical Spine Research Society, Austin, TX, December 2008. (Poster Presentation)
83. Bible JE, Biswas D, Miller CP, Whang PG, **Grauer JN** . Cervical Functional spinal range of motion during sixteen activities of daily living. Cervical Spine Research Society, Austin, TX, December 2008. (Oral Presentation)
84. Biswas D, Bible JE, Whang PG, **Grauer JN** . Radiation exposure from plain radiographs and computed tomography of the spine. The Spine Study Group, Palm Beach, FL, May 2009. (Oral Presentation)
85. Miller CP, Brubacher JW, Lawrence J, Biswas D, Whang PG, **Grauer JN** . The Incidence and Classification of Cervical Spine Fractures of CT Scans at an Academic Medical Center over 10 Years. Eastern Orthopaedic Association, Nassau, New Providence, June 2009. (Poster Presentation)
86. Hammouri Q, Miller C , Smith B, Whang PG, **Grauer JN** . Evaluation of Scoliosis with Standing Rapid MRI with Sagittal Multi-planer MRi Reconstruction (SMMR): An Alternative to Traditional Plain Radiography. American College of Spine Surgery, Newport Beach, CA, June 2009. (Oral Presentation)

87. Miller CP, Bible JE, Jegede KA, Whang PG, **Grauer JN** . The Effects of Soft and Rigid Collars on the Functional Range of Motion of the Cervical Spine During Fifteen Activities of Daily Living. Eastern Orthopaedic Association, Nassau, New Providence, June 2009. (Oral Presentation)
88. Hammouri Q, Miller C, Smith B, Whang PG, **Grauer JN** . Evaluation of Scoliosis with Standing Rapid MRI with Sagittal Multi-planner MRI Reconstruction (SMMR): An Alternative to Traditional Plain Radiography. International Meeting on Advanced Spine Techniques, Vienna, Vienna, July 2009. (Poster Presentation)
89. Ju BL, Miller CP, Whang PG, **Grauer JN** . Comparing Financial Disclosure Reporting an Annual Spine Conferences. Scoliosis Research Society, San Antonio, TX, September 2009. (Oral Presentation)
90. Ju BL, Miller CP, Whang PG, **Grauer JN** . Comparing Financial Disclosure Reporting at Annual Spine Conferences. North American Spine Society, San Francisco, CA, November 2009. (Oral Presentation)
91. Miller CP, Bible JE, Whang PG, **Grauer JN** . The Effects of Lumbar Orthoses on the Range of Motion of the Lumbar Spine during Fifteen Activities of Daily Living. North American Spine Society, San Francisco, CA, November 2009. (Poster Presentation)
92. Miller CP, Bible JE, Jegede KA, Whang PG, **Grauer JN** . The Effects of Soft and Rigid Collars on the Functional Range of Motion of the Cervical Spine During Fifteen Activities of Daily Living. Cervical of Spine Research Society, Salt Lake City, UT, December 2009. (Oral Presentation)
93. Essig D, Smith B, Miller C, Xiao M, Ivancic P, Jegede K, **Grauer JN** . Biomechanical Comparison of Uniaxial Screws and Monoaxial Screws. International Meeting on Advanced Spinal Techniques (IMAST), Toronto, ON, July 2010. (Poster Presentation)
94. Jegede KA, **Grauer JN** . Varying Interpretation of Orthopaedic Financial Disclosure Policies. North American Spine Society, Orlando, FL, October 2010. (Poster Presentation)
95. Essig D, Smith B, Miller C, Xiao M, Ivancic P, Jegede KA, **Grauer JN** . Biomechanical Comparison of Uniaxial Screws and Monoaxial Screws. American Academy of Pediatrics National Congress and Exhibition, San Francisco, CA, October 2010. (Oral Presentation)
96. Miller CP, Brubacher JW, Lawrence J, Biswas D, Whang PG, **Grauer JN** . The Incidence and Classification of Cervical Spine Fractures on CT Scans at an Academic Medical Center over 10 Years. AO North America Challenges in Fracture Care Across Disciplines, Phoenix, AZ, November 2010. (Poster Presentation)
97. Jegede KA, Miller CP, Brubacher JW, **Grauer JN** . The Incidence of Noncontiguous Spinal Fractures and other traumatic injuries associated with cervical spine fractures: a ten year experience at an academic medical center. AO North America Challenges in Fracture Care Across Disciplines, Phoenix, AZ, November 2010. (Poster Presentation)
98. Jegede KA, Hustedt J, **Grauer JN** . Characterization of bone marrow aspirates from the vertebral body in order to optimize potential utility as a bone graft option. AO North America Challenges in Fracture Care Across Disciplines , Phoenix, AZ, November 2010. (Oral Presentation)
99. Jegede KA, Miller CP, Brubacher JW, Whang PG, **Grauer JN** . Mortality Rates of Patients with odontoid and subaxial cervical spine fractures treated at an academic medical center during a nine year period. Cervical Spine Research Society, Charlotte, NC, December 2010. (Oral Presentation)
100. Jegede KA, **Grauer JN** . Varying Interpretation of Orthopaedic Financial Disclosure Policies. Cervical Spine Research Society, Long Beach, CA, January 2011. (Poster Presentation)
101. **Grauer JN** , Mahar A, Vishnubhotla S, Chastain S. Comparison of osteogenesis of an early lineage stem cell to bone marrow aspirate and pure mesenchymal stem cells with in a demineralized bone

- scaffold in an athymic rat model. Spine Arthroplasty Society, Las Vegas, NV, April 2011. (Oral Presentation)
102. Blizzard DJ, Haims AH, Lischuk AW, Arunakul R, Hustedt JW, **Grauer JN** . Potential use of three-dimensional isotropic MRI in the lumbar spine. Spine Study Group, Palm Beach, FL, May 2011. (Oral Presentation)
 103. Hustedt JW, Blizzard DJ, Baumgaertner MR, Leslie MP, **Grauer JN** . Is age a significant predictor of ability to comply with partial weight-bearing instructions. Eastern Orthopaedic Association, Williamsburg, VA, October 2011. (Poster Presentation)
 104. Ndu A, Jegede K, Keggi K, **Grauer JN** . Recovery room radiographs following total hip arthroscopy: tradition vs utility. Eastern Orthopaedic Association, Williamsburg, VA, October 2011. (Oral Presentation)
 105. Jegede KA, Hustedt J, **Grauer JN** . Characterization of bone marrow aspirates from the vertebral body in order to optimize potential utility as a bone graft option. Eastern Orthopaedic Association, Williamsburg, VA, October 2011. (Oral Presentation)
 106. Hustedt JW, Blizzard DJ, Baumgaertner MR, Leslie MP, **Grauer JN** . Is it possible to train patients to bear limited weight on lower extremity. Orthopaedic Trauma Association, San Antonio, TX, October 2011. (Poster Presentation)
 107. **Grauer JN** , Blizzard DJ, Haims AH, Lischuk AW, Arunakul R, Hustedt JW. Potential use of three-dimensional isotropic MRI in the lumbar spine. Eastern Orthopaedic Association, Williamsburg, VA, October 2011. (Oral Presentation)
 108. Bohl DD, Telles CJ, Hustedt JW, Blizzard DJ, Carlson EJ, **Grauer JN** . Post-anesthesia care unit (PACU) imaging is unnecessary when intraoperative images are obtained after anterior cervical decompression and fusion (ACDF). AO North America Challenges in Fracture Care Across Disciplines, Lake Buena Vista, FL, February 2012. (Poster Presentation)
 109. Blizzard DJ, Haims AH, Lischuk AW, Arunakul R, Hustedt JW, **Grauer JN** . Potential use of three-dimensional isotropic MRI in the lumbar spine. AO North America Challenges in Fracture Care Across Disciplines , Lake Buena Vista, FL, February 2012. (Oral Presentation)
 110. Hustedt JW, Blizzard DJ, Baumgaertner MR, Leslie MP, **Grauer JN** . Partial weight bearing is maintained over a 24-hour period following training with a feedback device. AO North America Challenges in Fracture Care across Disciplines, Lake Buena Vista, FL, February 2012. (Oral Presentation)
 111. Bohl DD, Hustedt JW, Blizzard DJ, Badrinath R, **Grauer JN** . Routine imaging for anterior cervical decompression and fusion procedures. AO North America Challenges in Fracture Care Across Disciplines, Lake Buena Vista, FL, February 2012. (Oral Presentation)
 112. Fu M, Buerba R, Gurskay J, **Grauer JN** . Orthopaedic surgeons in rural areas are aging and not increasing in pace with total physicians: A 15 year longitudinal workforce analysis. American Medical Association (AMA) Research Symposium, Urban Honolulu, HI, November 2012. (Poster Presentation)
 113. Buerba R, Fu M, **Grauer JN** . Discrepancies in spine surgeon conflict-of-interest disclosures between a national meeting and physician payment listings on a device manufacturer website. North American Spine Society, Evidence Technology Spine Summit, Park City, UT, March 2013. (Poster Presentation)

114. Bohl DD, Ruiz FK, Webb ML, Gruskay JA, **Grauer JN** . Routine imaging for elective lumbar spine surgery: a questionnaire study. North American Spine Society, Evidence Technology Spine Summit, Park City, UT, March 2013. (Poster Presentation)
115. Gruskay JA, Fu M, Bohl DD, Webb ML, **Grauer JN** . Factors affecting length of stay following elective posterior lumbar fusion: a multivariable analysis. North American Spine Society evidence technology spine summit, Park City, UT, March 2013. (Poster Presentation)
116. Webb ML, Gruskay JA, Hirsch BP, Jegede KA, Whang PG, **Grauer JN** . Visual estimation of cervical spine range of motion can be improved with training. North American Spine Society , Evidence Technology spine summit, Park City, UT, March 2013. (Poster Presentation)
117. **Grauer JN** , Webb ML, Gruskay JA, Hirsch BP, Jegede KA, Whang PG. Visual estimation of cervical spine range of motion can be improved with training. North American spine society, evidence technology spine summit, Park City, UT, March 2013. (Poster Presentation)
118. Webb ML, Badrinath R, Hustedt JW, Jegede KA, Horowitz MC, **Grauer JN** . Bone marrow aspirate from the vertebral body: the effect of temperature, media, and time on nucleated cell survival. North American Spine Society, Evidence Technology Spine Summit, Park City, UT, March 2013. (Poster Presentation)
119. Fu M, Buerba R, Gruskay J, **Grauer JN** . Orthopaedic surgeons in rural areas are aging and not increasing in pace with total physicians. International Societyfor the Advancement of Spine Surgery, Vancouver, BC, April 2013. (Poster Presentation)
120. Buerba R, Fu M, **Grauer JN** . Discrepancies in spine surgeon conflict-of-interest disclosures between a national meeting and physician payment listings on a device manufacturer website. International society for the advancement of spine surgery, Vancouver, BC, April 2013. (Oral Presentation)
121. Bohl DD, Ruiz FK, Webb ML, Gruskay JA, **Grauer JN** . Routine imaging for elective lumbar spine surgery; a questionnaire study. International Society for the advancement of spine surgery, Vancouver, BC, April 2013. (Poster Presentation)
122. Ruiz FK, Bohl DD, Webb ML, **Grauer JN** . Using outcome measures to indicate motion in the lumbar spine. International society for the advancement of spine surgery, Vancouver, BC, April 2013. (Poster Presentation)
123. **Grauer JN** , Gruskay JA, Fu M, Bohl DD, Webb ML. Factors affecting length of stay following elective posterior lumbar fusion: a multivariable analysis. International society for the advancement of spine surgery, Vancouver, BC, April 2013. (Poster Presentation)
124. Webb ML, Ruiz F, Gruskay JA, Buerba R, Fu M, Whang PG, **Grauer JN** . Lasting improvement of visual estimation of lumbar spine range of motion after one training session. Lumbar spine research society, Chicago, IL, April 2013. (Poster Presentation)
125. Webb ML, Badrinath R, Hustedt JW, Jegede KA, Horowitz MC, **Grauer JN** . Bone marrow aspirate from the vertebral body: the effect of temperature, media, and time nucleated cell survival. International Society for the Advancement of Spine Surgery, Vancouver, BC, April 2013. (Oral Presentation)
126. Webb ML, Badrinath R, Hustedt JW, Jegede KA, Horowitz MC, **Grauer JN** . Bone marrow aspirate from the vertebral body: the effect of temperature, media, and time on nucleated cell survival. Lumbar Spine Research Society, Chicago, IL, April 2013. (Oral Presentation)
127. Webb ML, Bohl DD, Anastasio KM, **Grauer JN** . Negligible impact of electronic health records on outpatient volume and coded level of service - a report from two departments in an academic medical group. Lumbar Spine Research Society, Chicago, IL, April 2013. (Oral Presentation)

128. Buerba R, Fu M, Long WD, **Grauer JN** . Obese III patients at significantly greater risk of multiple complications after lumbar surgery: an analysis of 10,484 patients in the ASC-NSQUIP database. Lumbar Spine Research Society, Chicago, IL, April 2013. (Oral Presentation)
129. Bohl DD, Gruskay J, Miller CP, Varthi A, Ruiz FK, **Grauer JN** . Recovery room radiographs not found to have incremental utility above intra-operative images after lumbar fusion procedures. Lumbar Spine Research Society, Chicago, IL, April 2013. (Oral Presentation)
130. Fu MC, Buerba R, Neway WE, Brown E, Trivedi M, Lischuk AW, Haims AH, **Grauer JN** . Three-dimensional isotropic MRI of cervical spine; a diagnostic comparison to conventional MRI. Dorris Duke Charitable Foundation Clinical Research Fellowship Meeting, Herndon, VA, May 2013. (Other)
131. Bohl DD, Telles CJ, **Grauer JN** , DeLuca PA. Results of Providence nighttime bracing in patients with adolescent idiopathic scoliosis. International Meeting on Advanced Spine Techniques, Vancouver, BC, July 2013. (Oral Presentation)
132. DeLuke L, Zheng J, Fan RE, Fu MC, **Grauer JN** , Morrell JB. Design and Evaluation of partial weight-bearing sensor and haptic feedback system for lower-extremity orthopedic patients. Institute of Electrical and Electronics Engineers International Conference on Systems, Man, and Cybernetics, Manchester, England, October 2013. (Oral Presentation)
133. Webb ML, Badrinath R, Hustedt JW, Jegede KA, Horowitz MC, **Grauer JN** . Bone marrow aspirate from the vertebral body: the effect of temperature, media, and time on nucleated cell survival. North American Spine Society, New Orleans, LA, October 2013. (Oral Presentation)
134. Buerba R, Fu M, Long WD, **Grauer JN** . Obese III patients at significantly greater risk of multiple complications after lumbar surgery: an analysis of 10,484 patients in the ASC-NSQUIP database. North American Spine Society, New Orleans, LA, October 2013. (Oral Presentation)
135. Webb ML, Bohl DD, Anastasio KM, **Grauer JN** . Negligible impact of electronic health records on outpatient volume and coded level of service - a report from two departments in an academic medical group. North American Spine Society, New Orleans, LA, October 2013. (Poster Presentation)
136. Buerba R, Fu M, Gruskay J, Long WD, **Grauer JN** . Anterior and posterior cervical fusion in patients with high body mass index appear safe overall: an analysis of 4,071 patients in the ACS-NSQIP database. North American Spine Society, New Orleans, LA, October 2013. (Poster Presentation)
137. **Grauer JN** , Buerba R, Fu M, Gruskay J, Long WD. Anterior and posterior cervical fusion in patients with high body mass index appear safe overall: an analysis of 4,071 patients in the ACS-NSQIP database. Cervical Spine Research Society, Los Angeles, CA, December 2013. (Oral Presentation)
138. Buerba R, Fu M, **Grauer JN** . Increased risk of complications after ACDF in the Elderly: an analysis of 3671 patients in the ACS-NSQIP database. Cervical Spine Research Society, Los Angeles, CA, December 2013. (Oral Presentation)
139. **Grauer JN** , Fu MC, Buerba R, Neway WE, Brown E, Trivedi M, Lischuk AW, Haims AH. Magnetic resonance imaging of the cervical spine: significant variability in inter-rater and intra-rater reliability across degenerative conditions. Cervical Spine Research Society, Los Angeles, CA, December 2013. (Oral Presentation)
140. Bohl DD, Telles CJ, **Grauer JN** , DeLuca PA. Results of Providence nighttime bracing in patients with adolescent idiopathic scoliosis. International Pediatric Orthopaedic Symposium, Lake Buena Vista, FL, December 2013. (Poster Presentation)
141. Bohl DD, Telles CJ, Ruiz FK, Badrinath R, DeLuca PA, **Grauer JN** . A genetic test predicts Providence brace success for adolescent idiopathic scoliosis when failure defined as progression to greater

- than 45 degrees. International Pediatric Orthopaedic Symposium , Lake Buena Vista, FL, December 2013. (Poster Presentation)
142. Basques B, Bohl DD, Golinvaux NS, Smith B, **Grauer JN** . Which common pediatric orthopaedic procedures are the most dangerous. Pediatric Orthopaedic Society of North America, Atlanta, GA, April 2014. (Oral Presentation)
 143. Bohl DD, Fu MC, Golinvaux NS, Basques B, Russo GS, **Grauer JN** . A comparison of demographics and adverse event rates for lumbar fusion procedures between the national inpatient sample and the national surgical quality. Lumbar Spine Research Society, Chicago, IL, May 2014. (Poster Presentation)
 144. Basques B, Fu MC, Buerba R, Bohl DD, Golinvaux NS, **Grauer JN** . Using the ACS-NSQIP to identify factors affecting hospital length of stay after elective posterior lumbar fusion. Lumbar Spine Research Society, Chicago, IL, May 2014. (Oral Presentation)
 145. Golinvaux NS, Basques B, Bohl DD, **Grauer JN** . Smoking is Common but Does Not Increase the Risk of Perioperative Complications Following Elective Lumbar Spine Surgery: A Study of 11,586 Patients in The ACS NSQIP Database. Lumbar Spine Research Society, Chicago, IL, May 2014. (Oral Presentation)
 146. Basques B, Golinvaux NS, Bohl DD, **Grauer JN** . Which patients get admitted and readmitted after elective lumbar discectomy? An analysis of 3,394 ACS-NSQIP patients. Lumbar Spine Research Society, Chicago, IL, May 2014. (Oral Presentation)
 147. Golinvaux NS, Bohl DD, Basques B, **Grauer JN** . 243 surgical discectomy patients from the SPORT trial compared to 8,350 discectomy patients from ACS NSQIP: demographic, perioperative variables, and complications correlate well. Lumbar Spine Research Society, Chicago, IL, May 2014. (Oral Presentation)
 148. Golinvaux NS, Bohl DD, Basques B, Fu MC, Gardner E, **Grauer JN** . Limitations of Administrative Databases In Spine Research: A Study in Obesity. Lumbar Spine Research Society, Chicago, IL, May 2014. (Oral Presentation)
 149. Golinvaux NS, Basques B, Bohl DD, **Grauer JN** . Comparison of 372 patients undergoing decompression for degenerative spondylolisthesis from the SPORT trial with 1,035 from the ACS NSQIP database. Lumbar Spine Research Society, Chicago, IL, May 2014. (Oral Presentation)
 150. Gruskay JA, Basques B, Webb ML, **Grauer JN** . Complications, length of stay, and readmission following iliac crest bone graft use in spinal fusion: a multivariate analysis of patients in the ACS NSQIP database. Lumbar Spine Research Society, Chicago, IL, May 2014. (Oral Presentation)
 151. Fu MC, DeLuca L, Zheng J, Fan RE, Buerba R, Leslie MP, Baumgaertner MR, **Grauer JN** . Haptic biofeedback improves compliance with lower extremity partial weight bearing: a novel training system and initial evaluation. American Orthopaedic Association/Canadian Orthopaedic Association Combined Meeting, Montreal, QC, June 2014. (Oral Presentation)
 152. Fu MC, Buerba R, **Grauer JN** . Preoperative nutritional status is an independent predictor of major postoperative complications following anterior cervical discectomy and fusion. American Orthopaedic Association/Canadian Orthopaedic Association Combined Meeting, Montreal, QC, June 2014. (Oral Presentation)
 153. Bohl DD, Telles CJ, Ruiz FK, Badrinath R, DeLuca PA, **Grauer JN** . A genetic test predicts Providence brace success for adolescent idiopathic scoliosis when failure is defined as progression to greater than 45 degrees. American Orthopaedic Association/Canadian Orthopaedic Association Combined Meeting, Montreal, QC, June 2014. (Poster Presentation)

154. Bohl DD, Telles CJ, **Grauer JN** , DeLuca PA. Results of Providence nighttime bracing in patients with adolescent idiopathic scoliosis. American Orthopaedic Association/Canadian Orthopaedic Association Combined Meeting, Montreal, QC, June 2014. (Oral Presentation)
155. Bohl DD, Fu MC, Golinvaux NS, Basques B, Russo GS, **Grauer JN** . A comparison of demographics and adverse event rates for lumbar fusion procedures between the national inpatient sample and the national surgical quality. American Orthopaedic Association/Canadian Orthopaedic Association Combined Meeting, Montreal, QC, June 2014. (Oral Presentation)
156. Bohl DD, Fu MC, Gruskay JA, Basques B, Golinvaux NS, **Grauer JN** . The "July" effect in elective spine surgery: analysis of the american college of surgeons national surgical quality improvement program database. American Orthopaedic Association/Canadian Orthopaedic Association Combined Meeting, Montreal, QC, June 2014. (Oral Presentation)
157. Basques B, Fu MC, Buerba R, Bohl DD, Golinvaux NS, **Grauer JN** . Using the ACS-NSQIP to identify factors affecting hospital length of stay after elective posterior lumbar fusion. American Orthopaedic Association / Canadian Orthopaedic Association Combined Meeting, Montreal, QC, June 2014. (Poster Presentation)
158. Bohl DD, Lese AB, Patterson JT, **Grauer JN** , Dodds SD. Assessment of routine imaging practices after operatively repaired distal radius and scaphoid fractures. American Society for Surgery of the Hand, Boston, MA, September 2014. (Oral Presentation)
159. Bohl DD, Basques B, Golinvaux NS, Baumgaertner MR, **Grauer JN** . NIS and NSQIP give different results in hip fracture studies. Orthopaedic Trauma Association, Tampa, FL, October 2014. (Poster Presentation)
160. Bohl DD, Basques B, Golinvaux NS, Miller CP, Baumgaertner MR, **Grauer JN** . Extramedullary vs intramedullary implants for intertrochanteric hip fractures: thirty-day outcomes among 4,432 cases from the ACS-NSQIP database. Orthopaedic Trauma Association, Tampa, FL, October 2014. (Poster Presentation)
161. Basques B, Miller CP, Golinvaux NS, Bohl DD, **Grauer JN** . Risk for thromboembolic events after ankle fractures. Orthopaedic Trauma Association, Tampa, FL, October 2014. (Poster Presentation)
162. Bohl DD, Fu MC, Golinvaux NS, Basques B, Russo GS, **Grauer JN** . A comparison of demographics and adverse event rates for lumbar fusion procedures between the national inpatient sample and the national surgical quality. North American Spine Society, San Francisco, CA, November 2014. (Oral Presentation)
163. Golinvaux NS, Basques B, Bohl DD, **Grauer JN** . Smoking is Common but Does Not Increase the Risk of Perioperative Complications Following Elective Lumbar Spine Surgery: A Study of 11,586 Patients in The ACS NSQIP Database. North American Spine Society, San Francisco, CA, November 2014. (Oral Presentation)
164. Golinvaux NS, Bohl DD, Basques B, **Grauer JN** . 243 surgical discectomy patients from the SPORT trial compared to 8,350 discectomy patients from ACS NSQIP: demographic, perioperative variables, and complications correlate well. North American Spine Society, San Francisco, CA, November 2014. (Oral Presentation)
165. Golinvaux NS, Bohl DD, Basques B, Fu MC, Gardner E, **Grauer JN** . Limitations of Administrative Databases In Spine Research: A Study in Obesity. North American Spine Society, San Francisco, CA, November 2014. (Oral Presentation)
166. Golinvaux NS, Basques B, Bohl DD, **Grauer JN** . Comparison of 372 patients undergoing decompression for degenerative spondylolisthesis from the SPORT trial with 1,035 from the ACS

- NSQIP database. North American Spine Society, San Francisco, CA, November 2014. (Oral Presentation)
167. Varthi AG, Basques B, Bohl DD, **Grauer JN** . Perioperative outcomes after cervical laminoplasty versus posterior decompression and fusion: Analysis of 779 patients in the ACS-NSQIP database. North American Spine Society, San Francisco, CA, November 2014. (Oral Presentation)
 168. Basques B, Bohl DD, Golinvaux NS, Yacob , Varthi AG, **Grauer JN** . Predicting drain output after anterior cervical discectomy and fusion. North American Spine Society, San Francisco, CA, November 2014. (Oral Presentation)
 169. Basques B, Varthi AG, Golinvaux NS, Bohl DD, **Grauer JN** . Patient characteristics associated with increased length of stay and readmission after laminectomy for lumbar spinal stenosis. North American Spine Society, San Francisco, CA, November 2014. (Oral Presentation)
 170. Bohl DD, Lese AB, Patterson JT, **Grauer JN** , Dodds SD. Follow-up radiographs after operative repair of distal radius and scaphoid fractures. New England Hand Society, Sturbridge, MA, December 2014. (Oral Presentation)
 171. Bohl DD, Lese AB, Patterson JT, **Grauer JN** , Dodds SD. Can history and physical detect loss of reduction after operative repair of distal radius fractures. American Association for Hand Surgery, Nassau, New Providence, January 2015. (Poster Presentation)
 172. **Grauer JN** , Basques B, Miller CP, Golinvaux NS, Bohl DD. Risk factors for thromboembolic events after surgery for ankle fractures. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Oral Presentation)
 173. Basques B, Gardner E, Toy JO, Golinvaux NS, Bohl DD, **Grauer JN** . General versus spinal anesthesia for geriatric hip fractures. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Oral Presentation)
 174. Basques B, Golinvaux NS, Bohl DD, **Grauer JN** . Does use of an operating microscope in spine surgery increase infection rates or operative time. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Poster Presentation)
 175. Basques B, Bohl DD, Golinvaux NS, Smith B, **Grauer JN** . Risk factors for poor short-term outcomes after spinal fusion for adolescent idiopathic scoliosis. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Poster Presentation)
 176. Basques B, Bohl DD, Golinvaux NS, Leslie MP, Baumgaertner MR, **Grauer JN** . Risk factors for increased length of stay and readmission following geriatric hip fracture. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Oral Presentation)
 177. Golinvaux NS, Varthi AG, Bohl DD, Basques B, **Grauer JN** . Complications following lumbar fusion in diabetic patients: insulin-dependence makes the difference. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Oral Presentation)
 178. Gruskay JA, Basques B, Webb ML, **Grauer JN** . Complications, length of stay, and readmission following iliac crest bone graft use in spinal fusion: a multivariate analysis of patients in the ACS NSQIP database. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Oral Presentation)
 179. Golinvaux NS, Bohl DD, Basques B, **Grauer JN** . Administrative database concerns: Poor ICD-9 code accuracy for preoperative anemia in spinal fusion. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Poster Presentation)

180. Basques B, Webb ML, Golinvaux NS, Bohl DD, **Grauer JN** . Adverse events, length of stay, and readmission following surgery for tibial plateau fractures. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Oral Presentation)
181. Basques B, Bohl DD, Golinvaux NS, **Grauer JN** . Differences in short-term outcomes between general and spinal anesthesia for total hip arthroplasty. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2015. (Oral Presentation)
182. Basques B, Golinvaux NS, Bohl DD, Smith B, **Grauer JN** . Predicting short-term morbidity in patients undergoing posterior spinal fusion for neuromuscular scoliosis. Pediatric Orthopaedic Society of North America, Atlanta, GA, April 2015. (Poster Presentation)
183. Webb ML, Lukasiewicz AM, Samuel AM, Bohl DD, Basques B, Varthi AG, **Grauer JN** . Of 12,567 lumbar discectomies, 2.47% of patients readmitted within 30 days: pain issues the most common reason for readmission. Lumbar Spine Research Society, Chicago, IL, April 2015. (Oral Presentation)
184. Bohl DD, Samuel AM, Webb ML, Lukasiewicz AM, Golinvaux NS, Basques B, Ahn J, Singh K, Vaccaro AE, **Grauer JN** . Timing of postoperative complications after lumbar fusion procedures. Lumbar Spine Research Society, Chicago, IL, April 2015. (Oral Presentation)
185. Webb ML, Samuel AM, Lukasiewicz AM, Basques B, Bohl DD, Varthi AG, **Grauer JN** . Of 5,267 lumbar posterior fusions, 4.35% of patients readmitted within 30 days: surgical site issues the most common reasons for readmission. Lumbar Spine Research Society, Chicago, IL, April 2015. (Oral Presentation)
186. Samuel AM, Lukasiewicz AM, Webb ML, Bohl DD, Basques B, **Grauer JN** . Short-term outcomes after cauda equina syndrome: an analysis of 3,732 patients. Lumbar Spine Research Society, Chicago, IL, April 2015. (Oral Presentation)
187. Samuel AM, Webb ML, Lukasiewicz AM, Basques B, Bohl DD, **Grauer JN** . Thromboembolic events after traumatic lumbar vertebral fractures: an analysis of 80,558 patients. Lumbar Spine Research Society, Chicago, IL, April 2015. (Oral Presentation)
188. Basques B, Samuel AM, Lukasiewicz AM, Webb ML, Bohl DD, Golinvaux NS, **Grauer JN** . Risk factors for blood transfusion with primary posterior lumbar fusion. Lumbar Spine Research Society, Chicago, IL, April 2015. (Oral Presentation)
189. Lukasiewicz AM, Samuel AM, Webb ML, Basques B, Bohl DD, **Grauer JN** . Effect of postoperative complications on length of stay after lumbar fusion procedures. Lumbar Spine Research Society, Chicago, IL, April 2015. (Poster Presentation)
190. Lukasiewicz AM, Bohl DD, Samuel AM, Webb ML, Basques B, **Grauer JN** . Morbidity and mortality during inpatient admission for osteoporosis-related fractures. Lumbar Spine Research Society, Chicago, IL, April 2015. (Oral Presentation)
191. Basques B, Webb ML, Golinvaux NS, Bohl DD, **Grauer JN** . Adverse events, length of stay, and readmission following surgery for tibial plateau fractures. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)
192. Bohl DD, Basques B, Golinvaux NS, Miller CP, Baumgaertner MR, **Grauer JN** . Extramedullary vs intramedullary implants for intertrochanteric hip fractures: thirty-day outcomes among 4,432 cases from the ACS-NSQIP database. American Orthopaedic Association, Providence, RI, June 2015. (Oral Presentation)
193. Basques B, Bohl DD, Golinvaux NS, **Grauer JN** . Differences in short-term outcomes between general and spinal anesthesia for total hip arthroplasty. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)

194. Bohl DD, Webb ML, Lukasiewicz AM, Samuel AM, Golinvaux NS, Basques B, **Grauer JN** . How long after total hip arthroplasty do complications occur. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)
195. Bohl DD, Basques B, Golinvaux NS, Baumgaertner MR, **Grauer JN** . NIS and NSQIP give different results in hip fracture studies. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)
196. Webb ML, Bohl DD, Basques B, Samuel AM, Lukasiewicz AM, Gardner E, **Grauer JN** . Open reduction and internal fixation versus arthroplasty for proximal humerus fractures in 487 geriatric patients. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)
197. Basques B, Bohl DD, Golinvaux NS, Smith B, **Grauer JN** . Which common pediatric orthopaedic procedures are the most dangerous. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)
198. Samuel AM, Bohl DD, Basques B, Diaz-Collado PJ, Lukasiewicz AM, Webb ML, **Grauer JN** . Factors associated with delays to surgery after cervical spinal cord injury. New England Neurosurgical Society, Chatham, MA, June 2015. (Oral Presentation)
199. Samuel AM, Bohl DD, Basques B, Diaz-Collado PJ, Lukasiewicz AM, Webb ML, **Grauer JN** . Factors associated with delays to surgery after cervical spinal cord injury. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)
200. Bohl DD, Basques B, Golinvaux NS, Lukasiewicz AM, Webb ML, Samuel AM, Ahn J, Singh K, **Grauer JN** . Severity weighting of postoperative adverse events in orthopaedic surgery. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)
201. Lukasiewicz AM, Bohl DD, Samuel AM, Webb ML, **Grauer JN** . Spinal fractures in patients with ankylosing spondylitis. American Orthopaedic Association, Providence, RI, June 2015. (Poster Presentation)
202. Bohl DD, Ahn J, Lukasiewicz AM, Samuel AM, Webb ML, Basques B, Golinvaux NS, Singh K, **Grauer JN** . How should postoperative adverse events be weighted against each other in research studies. Association of Bone and Joint Surgeons, Eugene, OR, July 2015. (Oral Presentation)
203. Samuel AM, Bohl DD, Basques B, Diaz-Collado PJ, Lukasiewicz AM, Webb ML, **Grauer JN** . Factors associated with delays to surgery after cervical spinal cord injury. Association of Bone and Joint Surgeons, Eugene, OR, July 2015. (Oral Presentation)
204. Basques B, Lukasiewicz AM, Webb ML, Samuel AM, Bohl DD, Smith B, **Grauer JN** . Predicting short-term morbidity in patients undergoing posterior spinal fusion for neuromuscular scoliosis. Scoliosis Research Society, Minneapolis, MN, September 2015. (Poster Presentation)
205. Samuel AM, Bohl DD, Basques B, Diaz-Collado PJ, Lukasiewicz AM, Webb ML, **Grauer JN** . Factors associated with delays to surgery after cervical spinal cord injury. North American Spine Society, Chicago, IL, October 2015. (Poster Presentation)
206. Webb ML, Samuel AM, Lukasiewicz AM, Basques B, Bohl DD, Varthi AG, **Grauer JN** . Of 5,267 lumbar posterior fusions, 4.35% of patients readmitted within 30 days: surgical site issues the most common reasons for readmission. North American Spine Society, Chicago, IL, October 2015. (Poster Presentation)
207. Samuel AM, Lukasiewicz AM, Webb ML, Bohl DD, Basques B, **Grauer JN** . Short-term outcomes after cauda equina syndrome: an analysis of 3,732 patients. North American Spine Society, Chicago, IL, October 2015. (Poster Presentation)

208. Samuel AM, Webb ML, Lukasiewicz AM, Basques B, Bohl DD, **Grauer JN** . Thromboembolic events after traumatic lumbar vertebral fractures: an analysis of 80,558 patients. North American Spine Society, Chicago, IL, October 2015. (Poster Presentation)
209. Bohl DD, Webb ML, Lukasiewicz AM, Samuel AM, Basques B, Ahn J, Singh K, Vaccaro AR, **Grauer JN** . Timing of complications following anterior cervical decompression and fusion procedures. North American Spine Society, Chicago, IL, October 2015. (Oral Presentation)
210. Basques B, Lukasiewicz AM, Webb ML, Samuel AM, Bohl DD, **Grauer JN** . Cervical total disc replacement and anterior cervical discectomy and fusion have similar short-term complication rates. North American Spine Society, Chicago, IL, October 2015. (Poster Presentation)
211. Samuel AM, Webb ML, Lukasiewicz AM, Basques B, Bohl DD, **Grauer JN** . Hip and pelvic fracture patients incur significantly different inpatient costs, despite being reimbursed under the same Medicare Diagnosis Related Group. Orthopaedic Trauma Association, San Diego, CA, October 2015. (Poster Presentation)
212. Samuel AM, Lukasiewicz AM, Webb ML, Bohl DD, Basques B, Varthi AG, Leslie MP, **Grauer JN** . Do we really understand the patient populations in database research: a comparison of femoral shaft fracture patients in three commonly used national databases and its effect on study outcomes. Orthopaedic Trauma Association, San Diego, CA, October 2015. (Oral Presentation)
213. Bohl DD, Basques B, Golinvaux NS, Lukasiewicz AM, Webb ML, Samuel AM, Ahn J, Singh K, **Grauer JN** . Severity weighting of postoperative adverse events in orthopaedic surgery. Orthopaedic Trauma Association, San Diego, CA, October 2015. (Poster Presentation)
214. Basques B, Lukasiewicz AM, Samuel AM, Webb ML, Bohl DD, **Grauer JN** . Missing data may invalidate hip fracture database studies. Orthopaedic Trauma Association, San Diego, CA, October 2015. (Oral Presentation)
215. Basques B, Lukasiewicz AM, Webb ML, Samuel AM, Bohl DD, Smith B, **Grauer JN** . Predicting short-term morbidity in patients undergoing posterior spinal fusion for neuromuscular scoliosis. North American Spine Society, Chicago, IL, October 2015. (Poster Presentation)
216. Basques B, Samuel AM, Lukasiewicz AM, Webb ML, Bohl DD, Golinvaux NS, **Grauer JN** . Risk factors for blood transfusion with primary posterior lumbar fusion. North American Spine Society, Chicago, IL, October 2015. (Oral Presentation)
217. Lukasiewicz AM, Bohl DD, Samuel AM, Webb ML, Basques B, **Grauer JN** . Morbidity and mortality during inpatient admission for osteoporosis-related fractures. North American Spine Society, Chicago, IL, October 2015. (Oral Presentation)
218. Lukasiewicz AM, Bohl DD, Samuel AM, Webb ML, **Grauer JN** . Spinal fractures in patients with ankylosing spondylitis. North American Spine Society, Chicago, IL, October 2015. (Oral Presentation)
219. Lukasiewicz AM, Bohl DD, Samuel AM, Webb ML, **Grauer JN** . Spinal fractures in patients with ankylosing spondylitis. Orthopaedic Trauma Association, San Diego, CA, October 2015. (Poster Presentation)
220. Bohl DD, Massel D, Mayo B, Basques B, Singh K, Ahn J, **Grauer JN** . Incidence and risk factors for pneumonia following lumbar spinal fusion procedures. Society For Minimally Invasive Spine Surgery, Las Vegas, NV, November 2015. (Oral Presentation)
221. Ahn J, Mayo B, Bohl DD, Massel D, Basques B, **Grauer JN** . Impact of operative time on adverse events following posterior lumbar fusion procedures. Society For Minimally Invasive Spine Surgery, Las Vegas, NV, November 2015. (Poster Presentation)

222. Bohl DD, Samuel AM, Lukasiewicz AM, Webb ML, Basques B, Della Valle CJ, Levine BR, **Grauer JN** . Which adverse events are associated with revision versus primary total joint arthroplasty?. American Association of Hip and Knee Surgeons, Dallas, TX, November 2015. (Poster Presentation)
223. Bohl DD, Ahn J, Massel D, Mayo B, Basques B, Singh K, **Grauer JN** . Impact of operative time on adverse events following anterior cervical discectomy and fusion. Society For Minimally Invasive Spine Surgery, Las Vegas, NV, November 2015. (Oral Presentation)
224. Samuel AM, Toy JO, Fu MC, Lukasiewicz AM, Webb ML, Bohl DD, Basques B, Albert TJ, **Grauer JN** . Most 30-day readmissions after anterior cervical discectomy and fusion are not due to surgical site-related issues: An analysis of 10,006 patients.. Cervical Spine Research Society, San Diego, CA, December 2015. (Oral Presentation)
225. Ghogawala Z, **Grauer JN** , Harrop J, Hilibrand AS, Rihn JA. Cervical radiculopathy: assessment of clinical outcomes and cost-effectiveness of operative and non-operative treatment. Cervical Spine Research Society, San Diego, CA, December 2015. (Oral Presentation)
226. Bohl DD, Ahn J, Massel D, Johnson DJ, Basques B, Ondeck NT, **Grauer JN** , Singh K. Number of operative levels minimally impacts risk for adverse events following an anterior cervical decompression and fusion. Cervical Spine Research Society, San Diego, CA, December 2015. (Oral Presentation)
227. Basques B, Lukasiewicz AM, Webb ML, Samuel AM, Bohl DD, Ahn J, Toy JO, Singh K, **Grauer JN** . Cervical total disc replacement and anterior cervical discectomy and fusion have similar short-term complication rates. Cervical Spine Research Society, San Diego, CA, December 2015. (Oral Presentation)
228. Samuel AM, Diaz-Collado PJ, Fu MC, Lukasiewicz AM, Webb ML, Bohl DD, Basques B, **Grauer JN** . Hospital-acquired pneumonia occurs in 20.5% of cervical spinal cord injury patients and is associated with poor inpatient outcomes: An analysis of 5,198 patients in the National Trauma Data Bank. Cervical Spine Research Society, San Diego, CA, December 2015. (Poster Presentation)
229. Basques B, Samuel AM, Webb ML, Lukasiewicz AM, Ahn J, Bohl DD, Singh K, **Grauer JN** . Missing data may invalidate spine surgery database studies. Cervical Spine Research Society, San Diego, CA, December 2015. (Oral Presentation)
230. Samuel AM, Rathi VK, **Grauer JN** , Ross JS. Post-market changes to orthopaedic devices cleared via the FDA premarket approval supplement pathway. American Academy of Orthopaedic Surgeons, Orlando, FL, March 2016. (Other)
231. Samuel AM, Lukasiewicz AM, Webb ML, Bohl DD, Basques B, Varthi AG, Leslie MP, **Grauer JN** . Do we really understand the patient populations in national databases when doing trauma research?. American Academy of Orthopaedic Surgeons, Orlando, FL, March 2016. (Poster Presentation)
232. Samuel AM, Webb ML, Lukasiewicz AM, Bohl DD, Basques B, Russo GS, Rathi VK, **Grauer JN** . Large disparities in industry payments to orthopaedic surgeons seen in Sunshine Act data.. American Academy of Orthopaedic Surgeons, Orlando, FL, March 2016. (Poster Presentation)
233. Basques B, Fischer J, Samuel AM, Webb ML, Lukasiewicz AM, Bohl DD, **Grauer JN** . Missing data significantly affects results from total joint arthroplasty database studies. American Academy of Orthopaedic Surgeons, Orlando, FL, March 2016. (Poster Presentation)
234. Bohl DD, Samuel AM, Webb ML, Lukasiewicz AM, Basques B, Levine BR, **Grauer JN** . Timing of complications following total joint arthroplasty. American Academy of Orthopaedic Surgeons, Orlando, FL, March 2016. (Oral Presentation)

235. Basques B, Samuel AM, Webb ML, Lukasiewicz AM, Ahn J, Bohl DD, Singh K, **Grauer JN** . Missing data may invalidate spine surgery database studies. American Academy of Orthopaedic Surgeons, Orlando, FL, March 2016. (Oral Presentation)
236. Bohl DD, Samuel AM, Lukasiewicz AM, Webb ML, Basques B, Della Valle CJ, Levine BR, **Grauer JN** . Which adverse events are associated with revision versus primary total joint arthroplasty. American Academy of Orthopaedic Surgeons, Orlando, FL, March 2016. (Lecture)
237. Webb ML, Samuel AM, Lukasiewicz AM, Geddes B, Sace A, Diaz-Collado P, **Grauer JN** . Of 5,267 lumbar posterior fusions, 4.6% of patients readmitted within 30 Days: surgical site issues the most common reasons for readmission. International Society for the Advancement of Spine Surgery, Las Vegas, NV, April 2016. (Poster Presentation)
238. Webb ML, Lukasiewicz AM, Samuel AM, Sace A, Geddes B, Diaz-Collado P, **Grauer JN** . Of 12,567 lumbar discectomies, 2.5% of patients readmitted within 30 days: postoperative pain is the most common reason for readmission. International Society for the Advancement of Spine Surgery, Las Vegas, NV, April 2016. (Poster Presentation)
239. Fu MC, Samuel AM, Sheha ED, Derman PD, Iyer S, **Grauer JN** , Kim HJ. Outpatient procedures reduce short-term complications in one- and two-level anterior cervical discectomy and fusion: A propensity-adjusted analysis of 14,434 patients. International Society for the Advancement of Spine Surgery, Las Vegas, NV, April 2016. (Oral Presentation)
240. Bohl DD, Ahn J, Massel D, Mayo B, Basques B, Singh K, **Grauer JN** . Impact of operative time on adverse events following anterior cervical discectomy and fusion.. International Society for the Advancement of Spine Surgery, Las Vegas, NV, April 2016. (Oral Presentation)
241. Samuel AM, Diaz-Collado PJ, Gala R, Webb ML, Lukasiewicz AM, Basques BA, Bohl DD, **Grauer JN** . Thromboembolic events after traumatic lumbar vertebral fractures: an analysis of 80,558 patients. International Society for the Advancement of Spine Surgery, Las Vegas, NV, April 2016. (Oral Presentation)
242. Samuel AM, Toy JO, Fu MC, Lukasiewicz AM, Webb ML, Kim HJ, **Grauer JN** . Most 30-day readmissions after anterior cervical discectomy and fusion are not due to surgical site-related issues: An analysis of 10,006 patients. International Society for the Advancement of Spine Surgery, Las Vegas, NV, April 2016. (Oral Presentation)
243. Samuel AM, Fu MC, Anandasivam NS, Lukasiewicz AM, Webb ML, Kim HJ, **Grauer JN** . Operative time better predictor of perioperative outcomes after long posterior fusions for adult spinal deformity than other surgical variables. International Society for the Advancement of Spine Surgery, Las Vegas, NV, April 2016. (Oral Presentation)
244. Bovonratwet P, Webb ML, Ondeck NT, **Grauer JN** . Publication rate of abstracts presented at LSRS meetings is similar or greater than that of other spine meetings. Lumbar Spine Research Society, Chicago, IL, April 2016. (Oral Presentation)
245. Samuel AM, Fu MC, Anandasivam NS, Lukasiewicz AM, Webb ML, Kim HJ, **Grauer JN** . Surgical timing, and not surgical invasiveness, is predictive of perioperative outcomes after long posterior fusions for adult spinal deformity: A need for speed. Lumbar Spine Research Society, Chicago, IL, April 2016. (Oral Presentation)
246. Ondeck NT, Anandasivam NS, Samuel AM, Bohl DD, **Grauer JN** . Demographics, mechanisms of injury and concurrent injuries associated with lumbar spine injuries: a study of 82,223 patients. Lumbar Spine Research Society, Chicago, IL, April 2016. (Poster Presentation)

247. Basques B, Samuel AM, Webb ML, Lukasiewicz AM, Ahn J, Bohl DD, Singh K, **Grauer JN** . Missing data may invalidate spine surgery database studies. Lumbar Spine Research Society, Chicago, IL, April 2016. (Oral Presentation)
248. Webb ML, Lukasiewicz AM, Samuel AM, Basques B, Bohl DD, Daubs MD, **Grauer JN** . Comparison of perioperative adverse event rates after single-level transforaminal lumbar interbody fusion versus anterior/posterior fusion for spondylolytic spondylolisthesis: 30 day outcomes of 635 cases. Lumbar Spine Research Society, Orlando, FL, April 2016. (Poster Presentation)
249. Anandasivam NS, Ondeck NT, Samuel AM, Swallow MS, Fischer J, Chung SH, Bohl DD, **Grauer JN** . Pediatric femoral shaft fractures: a study of associated injuries by mechanism of injury. American Orthopaedic Association, Seattle, WA, June 2016. (Poster Presentation)
250. Anandasivam NS, Ondeck NT, Samuel AM, Bohl DD, Swallow MS, Fischer J, Chung SH, **Grauer JN** . Demographics and associated injuries of talus fractures: analysis of 9,604 patients. American Orthopaedic Association, Seattle, WA, June 2016. (Poster Presentation)
251. Ondeck NT, Anandasivam NS, Samuel AM, Bohl DD, **Grauer JN** . Demographics, mechanisms of injury and concurrent injuries associated with lumbar spine injuries: A study of 82,223 patients.. American Orthopaedic Association, Seattle, WA, June 2016. (Poster Presentation)
252. Rihn JA, Bhat S, Harrop J, Zoher G, **Grauer JN** , Hilibrand AS. Surgical versus nonsurgical treatment for cervical radiculopathy: a cost effectiveness study. North American Spine Society, Boston, MA, October 2016. (Oral Presentation)
253. Webb ML, Lukasiewicz AM, Samuel AM, Basques B, Bohl DD, Daubs MD, **Grauer JN** . Comparison of perioperative adverse event rates after single-level transforaminal lumbar interbody fusion versus anterior/posterior fusion for spondylolytic spondylolisthesis: 30 day outcomes of 635 cases. North American Spine Society, Boston, MA, October 2016. (Oral Presentation)
254. Basques B, Lukasiewicz AM, Samuel AM, Webb ML, Bohl DD, Ahn J, Singh K, **Grauer JN** . Missing data may invalidate sine surgery database studies. North American Spine Society, Boston, MA, October 2016. (Oral Presentation)
255. Webb ML, Samuel AM, Lukasiewicz AM, Geddes B, Varthi A, **Grauer JN** . Comparison of postoperative adverse events after single-level transformainal lumbar interbody fusion versus anterior/posterior fusion for lumbar spondylosis: 30-day outcomes of 1,274 patients. North American Spine Society, Boston, MA, October 2016. (Poster Presentation)
256. Ondeck NT, Bohl DD, Bovonratwet P, Geddes B, Cui JJ, McLynn RP, Samuel AM, **Grauer JN** . Adverse events following Anterior Cervical Discectomy and Fusion: A comparison of spine surgeons perceptions and reported data for rates and risk factors. Cervical Spine Research Society, Toronto, ON, December 2016. (Poster Presentation)
257. Bovonratwet P, Webb ML, Ondeck NT, Cui JJ, McLynn RP, Kadimcherla P, Kim DH, **Grauer JN** . Management of degenerative spondylolisthesis: analysis of a questionnaire study, correlation with a national sample, and perioperative outcomes of treatment options. North American Spine Society Evidence & Technology Spine Summit, Park City, UT, February 2017. (Poster Presentation)
258. Ondeck NT, Anandasivam NS, Samuel AM, Bohl DD, **Grauer JN** . Demographics, mechanisms of injury and concurrent injuries associated with cervical spine injuries: A study of 83,882 patients. North American Spine Society Evidence & Technology Spine Summit, Park City, UT, February 2017. (Poster Presentation)
259. Ondeck NT, Bohl DD, Bovonratwet P, McLynn RP, Cui JJ, Shultz BN, Lukasiewicz AM, **Grauer JN** . Discriminative ability of commonly used comorbidity indices: A comparison of ASA, the modified

- Charlson Comorbidity Index and the modified Frailty Index. North American Spine Society Evidence & Technology Spine Summit, Park City, UT, February 2017. (Poster Presentation)
260. Ondeck NT, Bohl DD, Bovonratwet P, Geddes B, Cui JJ, McLynn RP, Samuel AM, **Grauer JN** . Adverse events following anterior cervical discectomy and fusion: a comparison of spine surgeons perceptions and reported data for rates and risk factors. North American Spine Society Evidence and Technology Spine Summit, Park City, UT, February 2017. (Poster Presentation)
261. Ondeck NT, Bohl DD, Bovonratwet P, McLynn RP, Cui JJ, Samuel AM, Webb ML, **Grauer JN** . Risk factors for and rates of adverse events following posterior lumbar fusion: a comparison of spine surgeons perceptions and reported data. North American Spine Society Evidence and Technology Spine Summit, Park City, UT, February 2017. (Poster Presentation)
262. Anandasivam NS, Ondeck NT, Samuel AM, Bohl DD, **Grauer JN** . Demographics mechanisms of injury and concurrent injuries associated with thoracic spine injuries: a study of 70,382 patients. North American Spine Society Evidence and Technology Spine Summit, Park City, UT, February 2017. (Poster Presentation)
263. Anandasivam NS, Wiznia DH, Kim CY, Save AV, **Grauer JN** , Pelker RR. Access of patients with lumbar disc herniations to spine surgeons: the effect of insurance type under the affordable care act. North American Spine Society Evidence and Technology Spine Summit, Park City, UT, February 2017. (Poster Presentation)
264. Reza A, Uveges T, Danilkovich A, Long M, **Grauer JN** . A novel periosteum-containing viable bone matrix induces angiogenesis in a transgenic nude mouse model. Orthopaedic Research Society, San Diego, CA, March 2017. (Oral Presentation)
265. Anandasivam NS, Ondeck NT, Samuel AM, Swallow MS, Fischer J, Chung SH, Bohl DD, Smith B, **Grauer JN** . Pediatric Femoral shaft fractures: a study of associated injuries by mechanism of injury. American Academy of Orthopaedic Surgeons, San Diego, CA, March 2017. (Poster Presentation)
266. Basques B, Meadows MC, **Grauer JN** , Kogan M. Pediatric obesity is associated with short-term risks after pelvic osteotomy. American Academy of Orthopaedic Surgeons, San Diego, CA, March 2017. (Poster Presentation)
267. Shultz BN, Bovonratwet P, Ondeck NT, Ottesen TD, McLynn RP, Cui JJ, **Grauer JN** . Evaluating the effect of growing patient numbers and changing data elements in the national surgical quality improvement program (NSQIP) database over the years: a study of lumbar fusions. Lumbar Spine Research Society, Chicago, IL, April 2017. (Poster Presentation)
268. Shultz BN, Wilson AT, Ondeck NT, Bovonratwet P, McLynn RP, Cui JJ, **Grauer JN** . Total disc arthroplasty and anterior interbody fusion in the lumbar spine have relatively similar short-term outcomes. Lumbar Spine Research Society, Chicago, IL, April 2017. (Poster Presentation)
269. Ondeck NT, Bohl DD, Bovonratwet P, McLynn RP, Cui JJ, Shultz BN, Lukasiewicz AM, **Grauer JN** . Discriminative ability of commonly used morbidity indices: a comparison of ASA, the modified Charlson Comorbidity Index, and the modified Frailty Index. Lumbar spine research society, Chicago, IL, April 2017. (Oral Presentation)
270. Bovonratwet P, Webb ML, Ondeck NT, Cui JJ, McLynn RP, Kadimcherla P, Kim DH, **Grauer JN** . National treatment trends and perioperative outcomes of surgical options for degenerative spondylolisthesis: an ACS- NSQIP study with comparison to prior LSRS survey results. Lumbar spine research society, Chicago, IL, April 2017. (Oral Presentation)
271. Ondeck NT, Bohl DD, Bovonratwet P, McLynn RP, Cui JJ, Shultz BN, Lukasiewicz AM, **Grauer JN** . The discriminative ability of commonly used indices to predict adverse outcomes after posterior lumbar

- fusion: A comparison of demographics, ASA, the modified Charlson Comorbidity Index, and the modified Frailty Index. American Orthopaedic Association, Charlotte, NC, June 2017. (Poster Presentation)
272. Ondeck NT, Bohl DD, Bovonratwet P, McLynn RP, Cui JJ, Samuel AM, Webb ML, **Grauer JN** . Adverse events following posterior lumbar fusion: A comparison of spine surgeons perceptions and reported data for rates and risk factors. American Orthopaedic Association, Charlotte, NC, June 2017. (Poster Presentation)
 273. Bovonratwet P, Webb ML, Ondeck NT, Cui JJ, McLynn RP, Kadimcherla P, Kim DH, **Grauer JN** . Management of degenerative spondylolisthesis: analysis of a questionnaire study, correlation with a national sample, and perioperative outcomes of treatment options. American Orthopaedic Association, Charlotte, NC, June 2017. (Poster Presentation)
 274. Anandasivam NS, Ondeck NT, Samuel AM, Bohl DD, **Grauer JN** . Demographics, Mechanisms of Injury and Concurrent Injuries Associated with Thoracic Spine Injuries: A study of 70,382 patients. American Orthopaedic Association, Charlotte, NC, June 2017. (Poster Presentation)
 275. Ondeck NT, Anandasivam NS, Samuel AM, Bohl DD, **Grauer JN** . Demographics, mechanisms of injury and concurrent injuries associated with cervical spine injuries: A study of 83,882 patients.. American Orthopaedic Association, Charlotte, NC, June 2017. (Poster Presentation)
 276. **Grauer JN** , Ondeck NT, Bohl DD, Bovonratwet P, Geddes B, Cui JJ, McLynn RP, Samuel AM. Adverse events following anterior cervical decompression and fusion: A comparison of spine surgeons perceptions and reported data for rates and risk factors. American Orthopaedic Association, Charlotte, NC, June 2017. (Poster Presentation)
 277. Anandasivam NS, Russo GS, Samuel AM, Grant R, Bohl DD, **Grauer JN** . Orthopaedic injuries to have heightened awareness of in patients with subdural hematomas. American Orthopaedic Association, Charlotte, NC, June 2017. (Poster Presentation)
 278. Bovonratwet P, Nelson SJ, Ondeck NT, Geddes B, **Grauer JN** . Thirty-day complications of navigated versus conventional single-level instrumented posterior lumbar fusion: An ACS-NSQIP analysis.. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Poster Presentation)
 279. Bovonratwet P, Ondeck NT, Tyagi V, **Grauer JN** . Outpatient and Inpatient Unicompartmental knee arthroplasty have similar short-term complication rates. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Poster Presentation)
 280. Bovonratwet P, Ondeck NT, Gala R, **Grauer JN** . Outpatient posterior lumbar fusions appear to be safely considered for appropriately selected patients. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Poster Presentation)
 281. Ottesen TD, McLynn RP, Zogg CK, Shultz BN, Ondeck NT, Bovonratwet P, Bellamkonda KS, Rubin LE, **Grauer JN** . Dialysis is an independent risk factor for perioperative adverse events, readmission, and mortality for patients undergoing elective spine surgery. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Poster Presentation)
 282. McLynn RP, Diaz-Collado PJ, Ottesen TD, Ondeck NT, Cui JJ, Bovonratwet P, Shultz BN, **Grauer JN** . Pharmacologic Prophylaxis for Venous Thromboembolism in Elective Spine Surgery. American

- College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Oral Presentation)
283. Ondeck NT, Bohl DD, McLynn RP, Cui JJ, Singh K, **Grauer JN** . Longer operative time is associated with increased adverse events following anterior cervical discectomy and fusion: 15-minute intervals matter. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Oral Presentation)
284. Ondeck NT, Bohl DD, McLynn RP, Cui JJ, Singh K, **Grauer JN** . Longer operative time is associated with increased adverse events following anterior cervical discectomy and fusion: 15-minute intervals matter. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Oral Presentation)
285. Ondeck NT, Bohl DD, Bovonratwet P, Cui JJ, McLynn RP, Shultz BN, **Grauer JN** . ASA classification is Superior to the modified Charlson Comorbidity Index and the modified Frailty Index in predicting adverse outcomes following surgical fixation of hip fractures. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Poster Presentation)
286. Shultz BN, Bovonratwet P, Ondeck NT, Ottesen TD, McLynn RP, Cui JJ, **Grauer JN** . Evaluating the effect of growing patient numbers and changing data elements in the National Surgical Quality Improvement Program (NSQIP) database over the years: a study of lumbar fusions. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Poster Presentation)
287. Shultz BN, Wilson AT, Ondeck NT, Bovonratwet P, McLynn RP, Cui JJ, **Grauer JN** . Total disc arthroplasty and anterior interbody fusion in the lumbar spine have relatively similar short-term outcomes. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Poster Presentation)
288. Bovonratwet P, Nelson SJ, Bellamkonda KS, Ondeck NT, Cui JJ, McLynn RP, Shultz BN, Medvecky MJ, **Grauer JN** . Similar thirty-day outcomes for septic knee arthritis treated with arthrotomy or arthroscopy: an American College of Surgeons National Surgical Quality Improvement Program analysis. American College of Surgeons National Surgical Quality Improvement Program Annual Conference, New York, NY, July 2017. (Poster Presentation)
289. Diaz-Collado PJ, Samuel AM, Gala R, McLynn RP, Lukasiewicz AM, Basques B, Bohl DD, **Grauer JN** . Thromboembolic events after traumatic vertebral fractures: an analysis of 190,192 patients. North American Spine Society, Orlando, FL, October 2017. (Oral Presentation)
290. Ondeck NT, Bohl DD, Bovonratwet P, Ottesen TD, Cui JJ, McLynn RP, **Grauer JN** . Predicting adverse events following posterior lumbar fusion: A comparison of the Charlson Comorbidity Index, Elixhauser's Comorbidity Measure, and the modified Frailty Index. North American Spine Society, Orlando, FL, October 2017. (Oral Presentation)
291. McLynn RP, Geddes B, Ondeck NT, Cui JJ, Bovonratwet P, Shultz BN, **Grauer JN** . Inaccuracies in ICD coding for obesity bias toward higher frequency of coding in patients with increased comorbidities and correlate with postoperative complications: A limitation for spine studies using administrative databases. North American Spine Society, Orlando, FL, October 2017. (Oral Presentation)
292. McLynn RP, Diaz-Collado PJ, Ottesen TD, Ondeck NT, Cui JJ, Bovonratwet P, Shultz BN, **Grauer JN** . Pharmacologic Prophylaxis for Venous Thromboembolism in Elective Spine Surgery. North American Spine Society, Orlando, FL, October 2017. (Poster Presentation)

293. McLynn RP, Cui JJ, Ondeck NT, Swanson DR, Shultz BN, Bovonratwet P, **Grauer JN** . The Rothman Index as a predictor of post-discharge adverse events after elective spine surgery. Cervical Spine Research Society, Hollywood, FL, November 2017. (Oral Presentation)
294. Ottesen TD, Malpani R, Galivacne AR, Varthi AG, Zogg CK, **Grauer JN** . Underweight patients are at just as much risk as super morbidity obese patients when undergoing cervical spine surgery. North American Spine Society Evidence & Technology Summit, Park City, UT, February 2018. (Poster Presentation)
295. Bohl DD, Bovonratwet P, Malpani R, **Grauer JN** , Nam D, Della Valle CJ. Incidence, Risk factors, and impact of Clostridium Difficile colitis following primary total hip and knee arthroplasty. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018. (Poster Presentation)
296. Bohl DD, Bovonratwet P, Russo GS, **Grauer JN** , Nam D, Della Valle CJ. Incidence, Risk factors, and impact of Clostridium Difficile colitis following surgery for geriatric hip fracture. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018. (Oral Presentation)
297. McLynn RP, Ondeck NT, Cui JJ, Lindskog DM, **Grauer JN** . Adverse events following prophylactic treatment of the femoral shaft or distal femur: A study of the American College of Surgeons National Surgical Quality Improvement Program. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018. (Oral Presentation)
298. Bovonratwet P, Malpani R, Ottesen TD, Tyagi V, Rubin LE, **Grauer JN** . Revision total hip arthroplasty in the elderly: Quantifying the risks for patients over 80 years old. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018. (Oral Presentation)
299. Bovonratwet P, Tyagi V, Ottesen TD, Rubin LE, **Grauer JN** . Revision total knee arthroplasty in octogenarians: An analysis of 957 cases. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018. (Oral Presentation)
300. Ondeck NT, Fu MC, Skrip LA, McLynn RP, Cui JJ, Basques B, Albert TJ, **Grauer JN** . Missing data treatments matter: An analysis of multiple imputation for anterior cervical discectomy and fusion procedures. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018. (Poster Presentation)
301. Zogg CK, Ottesen TD, Mirza FN, Cheraghlou S, Rubin LE, **Grauer JN** . No difference in payment penalties: Variations in hospital-level factors do not differentially affect Medicare quality metrics following elective total hip and knee arthroplasty. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018. (Poster Presentation)
302. Ottesen TD, McLynn RP, Zogg CK, Shultz BN, Ondeck NT, Bovonratwet P, Bellamkonda KS, Rubin LE, **Grauer JN** . Dialysis is an independent risk factor for perioperative adverse events, readmission, and mortality for patients undergoing elective spine surgery. American Academy of Orthopedic Surgeons, New Orleans, LA, March 2018. (Poster Presentation)
303. Bohl DD, Bovonratwet P, Malpani R, **Grauer JN** , Nam D, Della Valle CJ. Incidence, Risk factors, and impact of Clostridium Difficile colitis following primary total hip and knee arthroplasty. Annual Meeting of the Mid-America Orthopaedic Association, San Antonio, TX, April 2018. (Poster Presentation)
304. Malpani R, Clark MG, Bovonratwet P, **Grauer JN** . Preoperative high, as well as low, platelet counts correlate with perioperative adverse outcomes after posterior lumbar surgery. Lumbar Spine Research Society,, Chicago, IL, April 2018. (Oral Presentation)

305. Ottesen TD, Galivacnhe AR, Greene JD, Malpani R, Varthi AG, **Grauer JN** . Underweight patients are the highest risk body mass index group for perioperative adverse events following anterior lumbar interbody fusion.. Lumbar Spine Research Society, Chicago, IL, April 2018. (Poster Presentation)
306. Gala R, Ottesen TD, McLynn RP, Bovonratwet P, Varthi AG, **Grauer JN** . Different Fusion Approaches for Single-Level Lumbar Spondylosis Have Similar Perioperative Outcomes. Lumbar Spine Research Society, Chicago, IL, April 2018. (Poster Presentation)
307. Malpani R, Bovonratwet P, Clark MG, **Grauer JN** . Pre-operative platelet counts correlate with adverse outcomes and readmissions after elective total hip arthroplasty. American Orthopaedic Association, Boston, MA, June 2018. (Poster Presentation)
308. Ottesen TD, Zogg CK, Haynes MS, McLynn RP, Bovonratwet P, Ondeck NT, Shultz BN, Rubin LE, **Grauer JN** . Dialysis is an independent risk factor for perioperative adverse events, readmission, and mortality for patients undergoing hip fracture surgery. American Orthopaedic Association, Boston, MA, June 2018. (Poster Presentation)
309. Ondeck NT, Fu MC, Skrip LA, McLynn RP, Cui JJ, Basques B, Albert TJ, **Grauer JN** . Missing data treatments matter: An analysis of multiple imputation for anterior cervical discectomy and fusion procedures. American Orthopaedic Association, Boston, MA, June 2018. (Poster Presentation)
310. **Grauer JN** , Galivacnhe AR, Kebaish KJ, Ottesen TD, Malpani R, Varthi AG, Bagi PS, Boylan AJ, Rubin LE. Patients who have experienced significant unintentional weight loss preoperatively are at greater risk for adverse outcomes when undergoing posterior lumbar spine surgery. American College of Surgeons Quality and Safety Conference, Orlando, FL, July 2018. (Poster Presentation)
311. Kebaish KJ, Galivacnhe AR, Ottesen TD, Varthi AG, Rubin LE, **Grauer JN** . Chronic steroid and immunosuppressant use as a predictor for post-operative complications when undergoing posterior lumbar spine surgery. American College of Surgeons Quality and Safety Conference, Orlando, FL, July 2018. (Poster Presentation)
312. Ottesen TD, Yurter A, Shultz BN, Galivacnhe AR, Zogg CK, Bovonratwet P, Rubin LE, **Grauer JN** . Dialysis Increases Odds of perioperative adverse events following geriatric hip fracture surgery beyond demographic and comorbid characteristics. American College of Surgeons Quality and Safety Conference, Orlando, FL, July 2018. (Poster Presentation)
313. Haynes MH, Ondeck NT, Malpani R, Alder KD, **Grauer JN** . Comparison of outcomes of hemiarthroplasty to total hip arthroplasty in matched geriatric hip fracture populations. American College of Surgeons Quality and Safety Conference, Orlando, FL, July 2018. (Poster Presentation)
314. Haynes MS, Alder KD, Toombs C, Rubin LE, **Grauer JN** . The effects of preoperative dementia and postoperative delirium on 30-day postoperative mortality in geriatric hip fracture patients. National Medical Association Annual Convention and Scientific Assembly, Orlando, FL, August 2018. (Oral Presentation)
315. Bernstein RA, **Grauer JN** , Save AV, John T. Correlation of ultrasound, nerve conduction studies and surgical results in carpel tunnel syndrome. American Society of Surgery of the Hand, Boston, MA, September 2018. (Poster Presentation)
316. Haynes MH, Alder KD, Toombs C, Rubin LE, **Grauer JN** . The effects of preoperative dementia and postoperative delirium on 30-day postoperative mortality in geriatric hip fracture patients. American College of Surgeons Clinical Congress Scientific Forum, Boston, MA, October 2018. (Poster Presentation)
317. Ottesen TD, McLynn RP, Galivacnhe AR, Bagi PS, Zogg CK, **Grauer JN** . Increased 30-day complications in geriatric hip fracture patients with post-operative weight bearing restrictions: An

- analysis of 4,918 patients. American College of Surgeons Clinical Congress Scientific Forum, Boston, MA, October 2018. (Oral Presentation)
318. Ottesen TD, Hsiang WR, Malpani R, Varthi AG, Rubin LE, **Grauer JN** . Underweight patients are the highest risk body mass index group for perioperative adverse events following total shoulder arthroplasty. American College of Surgeons Clinical Congress Scientific Forum, Boston, MA, October 2018. (Oral Presentation)
 319. Adrados M, Bagi PS, Galivacnhe AR, **Grauer JN** , Varthi AG. Cement augmentation of compression fractures is safe in the very elderly. Eastern Orthopaedic Association, Amelia City, FL, October 2018. (Oral Presentation)
 320. Fu MC, Ondeck NT, Nwachukwu BU, Garcia GH, Gulotta LV, Verma NN, **Grauer JN** . Risk prediction for complications following total shoulder arthroplasty: Comparison of receiver operating characteristics for demographic and comorbidity indices. Eastern Orthopaedic Association, Amelia City, FL, October 2018. (Oral Presentation)
 321. Ottesen TD, McLynn RP, Galivacnhe AR, Bagi PS, Zogg CK, Rubin LE, **Grauer JN** . Increased 30-Day Complications in Geriatric Hip Fracture Patients with Post-Operative Weight Bearing Restrictions: An Analysis of 4,918 Patients. American Association of Hip and Knee Surgeons,, Dallas, TX, November 2018. (Poster Presentation)
 322. Ottesen TD, Yurter A, Shultz BN, Galivacnhe AR, Zogg CK, Bovonratwet P, Rubin LE, **Grauer JN** . Dialysis increases odds of perioperative adverse events following geriatric hip fracture surgery beyond demographic and comorbid characteristics. American Association of Hip and Knee Surgeons, Dallas, TX, November 2018. (Poster Presentation)
 323. Ottesen TD, Yurter A, Shultz BN, Galivacnhe AR, Zogg CK, Bovonratwet P, Rubin LE, **Grauer JN** . Dialysis increases odds of perioperative adverse events following geriatric hip fracture surgery beyond demographic and comorbid characteristics. American Association of Hip and Knee Surgeons, Dallas, TX, November 2018. (Poster Presentation)
 324. Pathak N, Smith B, **Grauer JN** . Industry payments to pediatric orthopaedic surgeons reported by the Open Payments Database: 2014 to 2017. International Pediatric Orthopaedic Symposium, Orlando, FL, November 2018. (Poster Presentation)
 325. Mets EJ, McLynn RP, **Grauer JN** . Risk factors for venous thromboembolism in children undergoing orthopaedic surgery. International Pediatric Orthopaedic Symposium, Orlando, FL, November 2018. (Poster Presentation)
 326. Mets EJ, McLynn RP, Frumberg DB, **Grauer JN** . Comparison of perioperative adverse outcomes after pediatric supracondylar humerus fracture surgery by pediatric and non-pediatric subspecialty trained orthopaedic surgeons. International Pediatric Orthopaedic Symposium, Orlando, FL, November 2018. (Poster Presentation)
 327. Mets EJ, McLynn RP, Frumberg DB, **Grauer JN** . Comparison of perioperative adverse outcomes after pediatric supracondylar humeral fracture surgery performed by pediatric and non-pediatric subspecialty trained orthopaedic surgeons. American Academy of Orthopedic Surgeons, Las Vegas, NV, March 2019. (Poster Presentation)
 328. Malpani R, Adrados M, Mercier MA, McLynn RP, **Grauer JN** . Spine surgery patient response rates to The Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) surveys are significantly affected by patient factors and perioperative outcomes: a single institution study of non-response bias. American Academy of Orthopedic Surgeons, Las Vegas, NV, March 2019. (Poster Presentation)

329. Gala R, Galivacne AR, Adrados M, Boylan AJ, **Grauer JN**, Varthi AG. A comparison of 30-day complications following three-level ACDF, two-level ACCF, and hybrid approaches for treatment of multilevel cervical stenosis: A multivariate NSQIP analysis. American Academy of Orthopedic Surgeons, Las Vegas, NV, March 2019. (Poster Presentation)
330. Ottesen TD, Hsiang WR, Malpani R, Varthi AG, Rubin LE, **Grauer JN**. Underweight patients are the greatest risk body mass index group for perioperative adverse events following total shoulder arthroplasty. American Academy of Orthopedic Surgeons, Las Vegas, NV, March 2019. (Oral Presentation)
331. Pathak N, Mercier M, Hilibrand AS, Scott MC, Varthi AG, **Grauer JN**. Industry payments to orthopaedic spine surgeons reported by the open payments database: 2014 to 2017. Lumbar Spine Research Society, Chicago, IL, April 2019. (Poster Presentation)
332. Malpani R, Adrados M, Mercier M, McLynn RP, **Grauer JN**. Spine surgery patients have a non-responder bias for who completes the HCAHPS surveys. Lumbar Spine Research Society, Chicago, IL, April 2019. (Poster Presentation)
333. Galivacne AR, Mercier M, Adrados M, McLynn RP, Anandasivam NS, Varthi AG, Rubin LE, **Grauer JN**. Admission NarxCare narcotics scores are not associated with adverse surgical outcomes or self-reported patient satisfaction following elective spine surgery. Lumbar Spine Research Society, Chicago, IL, April 2019. (Oral Presentation)
334. Gala R, Ottesen TD, Mets EJ, Kahan J, Varthi AG, **Grauer JN**. Perioperative outcomes among different fusion approaches for single-level lumbar spondylosis. Global Spine Congress, Toronto, ON, May 2019. (Poster Presentation)
335. Galivacne AR, Adrados M, Bagi PS, **Grauer JN**, Varthi AG. Cement augmentation of compression fractures is safe in the very elderly. Global Spine Congress, Toronto, ON, May 2019. (Poster Presentation)
336. Mets EJ, Pathak N, Galivacne AR, McLynn RP, Frumberg DB, **Grauer JN**. Risk factors for venous thromboembolism in children undergoing orthopaedic surgery. Pediatric Orthopaedic Society of North America, Charlotte, NC, May 2019. (Poster Presentation)
337. Scott MC, Mets EJ, Galivacne AR, Mercier M, **Grauer JN**. Patients' and physicians' knowledge of radiation exposure related to spine surgery. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
338. Freedman IG, Dowd HN, Elamadicy AA, **Grauer JN**. Second primary malignancies of the bones and joints are more common than expected in children and adults with osteosarcoma. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
339. Galivacne AR, Kebaish KJ, Adrados M, Ottesen TD, Varthi AG, Rubin LE, **Grauer JN**. Postoperative pressure ulcers after geriatric hip fracture surgery are predicted by defined preoperative comorbidities and postoperative complications. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
340. Mets EJ, Mercier M, Hilibrand AS, Scott MC, Rubin LE, **Grauer JN**. Predictors of top-box hospital rating among patients undergoing elective primary total knee arthroplasty. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
341. **Grauer JN**, Mets EJ, Mercier M, Hilibrand AS, Scott MC, Rubin LE, Varthi AG. Spine surgery patient-related factors and outcomes predict HCAHPS self-reported overall hospital rating. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)

342. Mets EJ, McLynn RP, **Grauer JN** . Risk factors for venous thromboembolism in children undergoing orthopaedic surgery. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
343. Kebaish KJ, Mercier M, Malpani R, Galivacne AR, **Grauer JN** . Spine surgery patient HCAHPS patient satisfaction survey results inversely correlate with survey response time. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
344. Haynes MH, Alder KD, Toombs C, Rubin LE, **Grauer JN** . The effects of preoperative dementia and postoperative delirium on 30-day postoperative mortality in geriatric hip fracture patients. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
345. Haynes MH, Alder KD, Toombs C, Rubin LE, **Grauer JN** . The effects of preoperative dementia and postoperative delirium on 30-day postoperative mortality in geriatric hip fracture patients. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
346. Ottesen TD, Hsiang WR, Malpani R, Varthi AG, Rubin LE, **Grauer JN** . Underweight patients are the greatest risk body mass index group for perioperative adverse events following total shoulder arthroplasty. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
347. Malpani R, Haynes MH, Clark MG, Jain S, Galivacne AR, Bovonratwet P, **Grauer JN** . Abnormally high, as well as low, pre-operative platelet counts correlate with adverse outcomes and readmissions after elective total knee arthroplasty. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
348. Malpani R, McLynn RP, Bovonratwet P, Bagi PS, Yurter A, Rubin LE, **Grauer JN** . Association between coagulopathies and post-operative adverse events and readmissions following total hip and total knee arthroplasty. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
349. Malpani R, John T, Mercier M, Ottesen TD, Nduaguba AM, Webb ML, **Grauer JN** . Rates, predictive factors, and reasons for readmission after open reduction internal fixation of distal radius fractures in an 11,124-patient cohort. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
350. Malpani R, Adrados M, Mercier M, McLynn RP, **Grauer JN** . Spine surgery patients have a non-responder bias for who completes the HCAHPS surveys. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
351. Ottesen TD, Mercier M, **Grauer JN** , Rubin LE. Is there value in subspecialty training? Comparison of differences in outcomes between non-fellowship and fellowship trained orthopedic surgeons among ABOS candidates.. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
352. Pathak N, Smith B, **Grauer JN** . Industry payments to pediatric orthopaedic surgeons reported by the Open Payments Database: 2014 to 2017. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
353. Mets EJ, McLynn RP, Frumberg DB, **Grauer JN** . Comparison of perioperative adverse outcomes after pediatric supracondylar humerus fracture surgery by pediatric and non-pediatric subspecialty trained orthopaedic surgeons. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
354. Galivacne AR, Nduaguba AM, Dussik CM, John T, Varthi AG, **Grauer JN** . Smokers are at higher risk for postoperative complications following open reduction internal fixation on distal radius fractures. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)

355. Mercier M, Adrados M, Malpani R, Galivacnhe AR, Hilibrand AS, Ottesen TD, Rubin LE, **Grauer JN** . Patient factors and perioperative outcomes significantly affect HCAHPS survey response rates in primary total hip replacement patients. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
356. Mercier M, Mets EJ, Hilibrand AS, Scott MC, Rubin LE, **Grauer JN** . Predictors of top-box hospital rating among patients undergoing primary elective total hip arthroplasty (THA). American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
357. Mercier M, Adrados M, Mets EJ, Malpani R, Galivacnhe AR, Pathak N, Rubin LE, **Grauer JN** . Neither revision total hip nor revision knee arthroplasty are associated with lower HCAHPS patient satisfaction scores compared to primary arthroplasty. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
358. Galivacnhe AR, Mercier M, Adrados M, McLynn RP, Anandasivam NS, Varthi AG, Rubin LE, **Grauer JN** . Admission NarxCare narcotics scores are not associated with adverse surgical outcomes or self-reported patient satisfaction following elective spine surgery. American Orthopedic Association, San Diego, CA, June 2019. (Poster Presentation)
359. Pathak N, Mercier M, Galivacnhe AR, Mets EJ, Bovonratwet P, Varthi AG, **Grauer JN** . Industry payments to orthopaedic spine surgeons reported by the Open Payments Database: 2014 to 2017. Association of Bone and Joint Surgeons, Newport, RI, July 2019. (Oral Presentation)
360. Mets EJ, Mercier M, Hilibrand AS, Scott MC, Varthi AG, **Grauer JN** . Spine surgery patient-reported factors and outcomes predict HCAHPS self-reported overall hospital rating. North American Spine Society, Chicago, IL, September 2019. (Poster Presentation)
361. Galivacnhe AR, Huang JK, Mu KM, Varthi AG, **Grauer JN** . Ensemble machine learning algorithms for prediction of complications after elective total hip arthroplasty. American College of Surgeons Clinical Congress, San Francisco, CA, October 2019. (Oral Presentation)
362. Ottesen TD, Pathak N, Mercier M, Lukasiewicz AM, **Grauer JN** , Rubin LE. Is there value in subspecialty training? Comparison of differences in outcomes between fellowship-trained orthopaedic foot and ankle surgeons and all other orthopaedic surgeons using the ABOS database. American College of Surgeons Clinical Congress, San Francisco, CA, October 2019. (Oral Presentation)
363. Pathak N, Mercier M, Galivacnhe AR, Mets EJ, Bovonratwet P, Bagi PS, Varthi AG, **Grauer JN** . Industry payments to orthopaedic spine surgeons reported by the open payments database: 2014 to 2017. Cervical Spine Research Society, New York, NY, November 2019. (Poster Presentation)
364. Ottesen TD, Bagi PS, Malpani R, Galivacnhe AR, Varthi AG, **Grauer JN** . Underweight patients exhibit the highest risk of any body mass index cohort for poor perioperative outcomes following posterior cervical spine surgery. Cervical Spine Research Society, New York, NY, November 2019. (Poster Presentation)
365. Galivacnhe AR, Ottesen TD, **Grauer JN** , Varthi AG. A Comparison of in-hospital complications following anterior cervical spine surgery between cases with and without Parkinson's disease: A propensity score matched analysis. Cervical Spine Research Society,, New York, NY, November 2019. (Poster Presentation)
366. Moore HG, Justen M, Kirwin DS, Burroughs PJ, **Grauer JN** . Preoperative dehydration prior to total hip and total knee arthroplasty increases risk of perioperative adverse events. Hospital for Special Surgery Hip & Knee Course, New York, NY, December 2019. (Poster Presentation)

367. Ottesen TD, Mercier M, **Grauer JN** , Rubin LE. Increasing trend and value in trauma subspecialty training: Variation in surgical outcomes when comparing trauma fellowship-trained versus all other orthopaedic surgeons using the ABOS Database. International Trauma Congress, Dubai, Dubai, February 2020. (Oral Presentation)
368. Webb ML, Myerson CL, Perez A, Stevenson KL, Nelson CL, **Grauer JN** . Comparison of perioperative adverse event rates following total hip arthroplasty in patients with diabetes: insulin dependence makes a difference. American Academy of Orthopaedic Surgeons, Orlando, FL, March 2020. (Poster Presentation)
369. Pathak N, Tyagi V, Petit LM, Malpani R, Hilibrand AS, Varthi AG, Rubin LE, **Grauer JN** . Industry payments in orthopaedic surgery: A 4-year analysis of the Open Payments Database. Mid-America Orthopaedic Association, Bonita Springs, FL, April 2020. (Poster Presentation)
370. Kirwin DS, Moore HG, **Grauer JN** . Factors associated with physician burnout amongst surgical medical students, orthopaedic residents, and orthopaedic attendings. Association of Bone and Joint Surgeons, Sea Island, GA, April 2020. (Poster Presentation)
371. Sabatino MJ, Burroughs PJ, Moore HG, **Grauer JN** . Spine coding transition from ICD-9 to ICD-10: not taking advantage of the specificity of a more granular system. Association of Bone and Joint Surgeons, Sea Island, GA, April 2020. (Oral Presentation)
372. Moore HG, Dussik CM, **Grauer JN** . Valuing the discrepancy in Medicare operative time estimates for total hip arthroplasty. (Virtual). Southern Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
373. Pathak N, Kahan J, **Grauer JN** , Rubin LE. PubMed and Google trends analysis of popular alternative treatments to hip and knee osteoarthritis. American Orthopaedic Association, Baltimore, MD, June 2020. (Poster Presentation)
374. Pathak N, Tyagi V, Mercier M, Bovonratwet P, Baumgaertner MR, **Grauer JN** . Industry payments to orthopaedic trauma surgeons reported by the open payments database. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
375. Pathak N, Tyagi V, Petit LM, Malpani R, Hilibrand AS, Varthi AG, Rubin LE, **Grauer JN** . Industry payments in orthopaedic surgery: A 4-Year analysis of the open payments database. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
376. Pathak N, Scott MC, Galivacnhe AR, Justen M, Hilibrand AS, Moore HG, Malpani R, Varthi AG, **Grauer JN** . Postoperative bracing practices after elective lumbar spine surgery: A questionnaire study. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
377. Pathak N, Lukasiewicz AM, Adrados M, Tyagi V, Rubin LE, **Grauer JN** . Investigating trends in industry compensation to orthopaedic adult reconstructive surgeons: An analysis of 60,266 industry payments. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
378. Burroughs PJ, Kahan J, Moore HG, Gardner E, **Grauer JN** . Quantifying the number of visits and temporal utilization of physical therapy after anterior cruciate ligament reconstruction. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
379. Kirwin DS, Moore HG, **Grauer JN** . Factors associated with characteristics of physician burnout amongst medical students, residents, and attendings in orthopaedics. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)

380. Moore HG, Justen M, Kirwin DS, Burroughs PJ, **Grauer JN** . Preoperative dehydration prior to total hip and total knee arthroplasty increases risk of perioperative adverse events. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
381. Pathak N, Kahlenberg CA, Moore HG, Sculco PK, **Grauer JN** . Early readmissions in aseptic revision total hip arthroplasty: rates, predictors, and reasons vary by surgical indication. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
382. Moore HG, Dussik CM, **Grauer JN** . Valuing the discrepancy in actual operative time vs. Medicare operative time estimates for primary and revision total knee arthroplasty. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
383. Moore HG, Dussik CM, **Grauer JN** . Valuing the discrepancy in actual operative time vs. Medicare operative time estimates for primary and revision total hip arthroplasty. (Virtual). American Orthopaedic Association, New Haven, CT, June 2020. (Poster Presentation)
384. Burroughs PJ, Kahan J, Moore HG, **Grauer JN** , Gardner E. Utilization of physical therapy following anterior cruciate ligament reconstruction. (Virtual). Southern Orthopaedic Association, New Haven, CT, July 2020. (Oral Presentation)
385. Moore HG, Burroughs PJ, Tuason DA, **Grauer JN** . Short-term outcomes after common pediatric orthopedic procedures: A five-year comparison. (Virtual). Southern Orthopaedic Association, New Haven, CT, July 2020. (Oral Presentation)
386. Moore HG, Dussik CM, **Grauer JN** . Actual vs. Medicare estimates of operative time for total knee arthroplasty: What does it cost? (Virtual). Southern Orthopaedic Association, New Haven, CT, July 2020. (Oral Presentation)
387. Burroughs PJ, Moore HG, Sabatino MJ, Tuason DA, **Grauer JN** . ICD-10 in pediatric spinal deformity: Are we taking advantage of increased coding granularity? (virtual). Southern Orthopaedic Association, New Haven, CT, July 2020. (Oral Presentation)
388. Moore HG, Justen M, Kirwin DS, Burroughs PJ, **Grauer JN** . Dehydration prior to total hip and total knee arthroplasty increases risk of perioperative adverse events. (virtual). Southern Orthopaedic Association, New Haven, CT, July 2020. (Oral Presentation)
389. Moore HG, Schneble C, Kahan J, Lukasiewicz AM, Burroughs PJ, Pathak N, Varthi AG, **Grauer JN** . Risk stratification model of early complications after posterior lumbar fusion. (Virtual). Southern Orthopaedic Association,, New Haven, CT, July 2020. (Oral Presentation)
390. Moore HG, Samuel AM, Burroughs PJ, Pathak N, Tuason DA, **Grauer JN** . Use of intraoperative navigation with posterior spinal fusion for adolescent idiopathic scoliosis appears safe to consider. (virtual). Southern Orthopaedic Association, New Haven, CT, July 2020. (Oral Presentation)
391. Moore HG, Halperin SJ, Berson ER, Burroughs PJ, Paskhover B, **Grauer JN** . Orthopedic injuries associated with cellphone use: A twenty-year analysis. (Virtual). Southern Orthopaedic Association, New Haven, CT, July 2020. (Oral Presentation)
392. Moore HG, Kahan J, Schneble C, Burroughs PJ, **Grauer JN** . Preoperative INR in geriatric hip fractures: Where is the threshold? (Virtual). Southern Orthopaedic Association, New Haven, CT, July 2020. (Oral Presentation)
393. Ottesen TD, Shultz BN, Munger AM, Sibindi C, Yurter A, Varthi AG, **Grauer JN** . Despite advances in tumor management modalities, surgery prevails as best predictor of survival for osteosarcoma: an analysis of primary osseous tumor characteristics, management, and outcomes from the National Cancer Database (NCDB). (Virtual). American College of Surgeons Clinical Congress, New Haven, CT, October 2020. (Oral Presentation)

394. Moore HG, Halperin SJ, Berson ER, Burroughs PJ, Paskhover B, **Grauer JN** . Orthopedic injuries associated with cellphone use: A twenty-year analysis.. Orthopaedic Trauma Association, Nashville, TN, October 2020. (Oral Presentation)
395. Moore HG, Kahan J, Schneble C, Burroughs PJ, Donohue KW, **Grauer JN** . Total shoulder arthroplasty for fracture vs. osteoarthritis: A propensity matched comparison. Orthopaedic Trauma Association, Nashville, Nashville, TN, October 2020. (Poster Presentation)
396. Ottesen TD, Shultz BN, Munger AM, Sibindi C, Yurter A, Varthi AG, **Grauer JN** . Despite advances in tumor management modalities, surgery prevails as best predictor of survival for osteosarcoma: an analysis of primary osseous tumor characteristics, management, and outcomes from the National Cancer Database (NCDB). (Virtual). Musculoskeletal Tumor Society, New Haven, CT, October 2020. (Poster Presentation)
397. Burroughs PJ, Moore HG, Sabatino MJ, Varthi AG, **Grauer JN** . Rate, reasons, and cost of emergency department visits surrounding lumbar discectomy. (Virtual). Lumbar Spine Research Society, New Haven, CT, November 2020. (Poster Presentation)
398. Pathak N, Scott MC, Galivacnhe AR, Justen M, Hilibrand AS, Moore HG, Malpani R, Varthi AG, **Grauer JN** . Postoperative bracing practices after elective lumbar spine surgery: a questionnaire study. (Virtual). Lumbar Spine Research Society, New Haven, CT, November 2020. (Poster Presentation)
399. Moore HG, Schneble C, Kahan J, Lukasiewicz AM, Burroughs PJ, Pathak N, Varthi AG, **Grauer JN** . Development and validation of a point-based risk stratification model for early complications after posterior. (Virtual). Lumbar Spine Research Society, New Haven, CT, November 2020. (Poster Presentation)
400. Ottesen TD, Shultz BN, Munger AM, Sibindi C, Yurter A, Varthi AG, **Grauer JN** . Despite advances in tumor management modalities, surgery prevails as best predictor of survival for osteosarcoma: an analysis of primary osseous tumor characteristics, management, and outcomes from the National Cancer Database (NCDB). (Virtual). Connective Tissue Oncology Society Annual Meeting, New Haven, CT, November 2020. (Poster Presentation)
401. Ottesen TD, Shultz BN, Munger AM, Amick M, Toombs C, **Grauer JN** . Surgical management remains the best predictor of survival: lessons from the National Cancer Database (NCDB) in describing characteristics, management, and outcomes for patients with chondrosarcoma. (Virtual). Connective Tissue Oncology Society Annual Meeting, New Haven, CT, November 2020. (Poster Presentation)
402. Bovonratwet P, Retzky JS, Ondeck NT, Samuel AM, Qureshi SA, **Grauer JN** , Albert TJ. Ambulatory single-level posterior cervical foraminotomy for cervical radiculopathy: a propensity-matched analysis of complication rates.. International Society for the Advancement of Spine Surgery, Miami, FL, May 2021. (Poster Presentation)
403. Moore HG, Burroughs PJ, Berson ER, Kirwin DS, Rankin KA, Sherman JJZ, Halperin SJ, Gardezi M, Sabatino MJ, **Grauer JN** . Lumbar MRI vertebral bone quality (VBQ) score: comparison to CT assessment and possible simplification. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
404. Burroughs PJ, Moore HG, Berson ER, Kirwin DS, Gardezi M, Halperin SJ, Sherman JJZ, Rankin KA, Sabatino MJ, **Grauer JN** . CT scans of lumbar fusion patients: a potentially missed opportunity to detect osteoporosis. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)

405. Gardezi M, Ottesen TD, Tyagi V, Rubin LE, **Grauer JN** . Arthroplasty implants and materials: cost awareness and value perception. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
406. Ottesen TD, Mercier M, Brand J, Amick M, **Grauer JN** , Rubin LE. The case for improved outcomes due to surgical volume and fellowship status in the treatment of geriatric hip fracture: an analysis of the ABOS database. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
407. Ottesen TD, Pathak N, Mercier M, Kirwin DS, Lukasiewicz AM, **Grauer JN** , Rubin LE. Is there value in subspecialty training? Comparison of differences in outcomes between fellowship-trained orthopaedic foot and ankle surgeons and all other orthopaedic surgeons using the ABOS database. (virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
408. Burroughs PJ, Frumberg DB, **Grauer JN** , Moore HG, Pathak N, Rubin LE. Total hip arthroplasty in patients with classic hemophilia: a matched comparison of 90-day outcomes and implant survival at 5 years. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
409. Mercier M, Galivacnhe AR, Varthi AG, Rubin LE, **Grauer JN** . Clinical characteristics and postoperative complication profiles of COVID-19-positive patients undergoing hip fracture surgery. (Virtual). American Orthopaedic Association,, New Haven, CT, June 2021. (Poster Presentation)
410. Ottesen TD, Shultz BN, Munger AM, Amick M, **Grauer JN** . Surgical management remains the best predictor of survival: lessons from the National Cancer Database (NCDB) in describing characteristics, management, and outcomes for patients with chondrosarcoma. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
411. Ottesen TD, Shultz BN, Munger AM, Conway DJ, Toombs C, **Grauer JN** . Analysis of the National Cancer Database (NDCB) shows continued superiority of surgical treatment as the best predictor of survival for appendicular Ewing sarcoma. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
412. Flores MJ, Kahan J, Burroughs PJ, Moore HG, Rubin LE, **Grauer JN** . Opioid prescription patterns by physician specialty in patients undergoing total hip arthroplasty. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
413. Galivacnhe AR, Mercier M, Varthi AG, Rubin LE, **Grauer JN** . Impact of COVID-19 positivity on postoperative course of cauda equina patients: an analysis of the Datavant COVID-19 Research Database. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
414. Mercier M, Galivacnhe AR, Burroughs PJ, Moore HG, Varthi AG, Rubin LE, **Grauer JN** . Utilization of non-operative distal radius fracture management billing codes. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
415. Mercier M, Kebaish KJ, Galivacnhe AR, Malpani R, Pathak N, Rubin LE, **Grauer JN** . Total knee arthroplasty patient HCAHPS patient satisfaction survey results inversely correlate with survey response time. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
416. Galivacnhe AR, Mercier M, Varthi AG, Rubin LE, **Grauer JN** . Clinical characteristics and postoperative complication profiles of COVID-19-positive patients undergoing ankle fracture surgery. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)

417. Burroughs PJ, Kahan J, Moore HG, **Grauer JN**, Gardner E. Gardner EC. Postoperative rehabilitation following arthroscopic anterior shoulder stabilization: a matched comparison of commercial insurance and Medicaid. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
418. Gardezi M, Moore HG, Rubin LE, **Grauer JN**. Predictors of physical abuse in elder patients with fracture. (Virtual). American Orthopaedic Association, New Haven, CT, June 2021. (Poster Presentation)
419. Bovonratwet P, Retzky JS, Ondeck NT, Samuel AM, Qureshi SA, **Grauer JN**, Albert TJ. Ambulatory single-level posterior cervical foraminotomy for cervical radiculopathy: a propensity-matched analysis of complication rates. orth American Spine Society's Spine Across the Sea, Waimea, HI, July 2021. (Poster Presentation)
420. Moore HG, Kahan J, Burroughs PJ, Sherman JJZ, Donohue KW, **Grauer JN**. Patients with Parkinson's Disease experience higher rates of prosthetic dislocation after elective total shoulder replacement: a matched comparison of 90-day adverse events and 5-year implant survival. American Academy of Orthopaedic Surgeons, San Diego, CA, August 2021. (Oral Presentation)
421. Ottesen TD, Pathak N, Mercier M, Kirwin DS, Lukasiewicz AM, **Grauer JN**, Rubin LE. Is there value in subspecialty training? Comparison of differences in outcomes between fellowship-trained orthopaedic foot and ankle surgeons and all other orthopaedic surgeons using the ABOS database.. American Academy of Orthopaedic Surgeons, San Diego, CA, August 2021. (Oral Presentation)
422. Gardezi M, Moore HG, Rubin LE, **Grauer JN**. Predictors of physical abuse in elder patients with fracture. American Academy of Orthopaedic Surgeons, San Diego, CA, August 2021. (Oral Presentation)
423. Moore HG, Kahan J, Burroughs PJ, Frumberg DB, Donohue KW, **Grauer JN**. Total shoulder arthroplasty in patients with cerebral palsy: a matched comparison of 90-day adverse events and 5-year implant survival.. American Academy of Orthopaedic Surgeons, San Diego, CA, August 2021. (Poster Presentation)
424. Moore HG, Kahan J, Burroughs PJ, Donohue KW, **Grauer JN**. Medicaid patients undergoing total shoulder arthroplasty have worse 90-day outcomes and inferior 5-year implant survival. American Academy of Orthopaedic Surgeons, San Diego, CA, August 2021. (Poster Presentation)
425. Burroughs PJ, Moore HG, Berson ER, Kirwin DS, Gardezi M, Halperin SJ, Sherman JJZ, Rankin KA, Sabatino MJ, **Grauer JN**. CT scans of lumbar fusion patients: a potentially missed opportunity to detect osteoporosis. American Academy of Orthopaedic Surgeons, San Diego, CA, August 2021. (Poster Presentation)
426. Bovonratwet P, Retzky JS, Chen AZ, Ondeck NT, Samuel AM, Qureshi SA, **Grauer JN**, Albert TJ. Ambulatory single-level posterior cervical foraminotomy for cervical radiculopathy: a propensity-matched analysis of complication rates. North American Spine Society, Boston, MA, September 2021. (Oral Presentation)
427. Moore HG, Gardezi M, Burroughs PJ, Rubin LE, Frumberg DB, **Grauer JN**. Primary total hip arthroplasty in patients with versus without cerebral palsy: a Matched comparison of 90-day adverse events and 5-year implant survival.. American Academy for Cerebral Palsy and Developmental Medicine, Québec City, QC, October 2021. (Oral Presentation)

428. Mercier M, Zhu J, Wilhelm CV, Varthi AG, **Grauer JN**, Rubin LE. Admission NarxCare scores are associated with increased odds of readmission after knee arthroplasty.. American Association of Hip and Knee Surgeons, Dallas, TX, November 2021. (Poster Presentation)
429. Mercier M, Galivacne AR, Pathak N, Mets EJ, **Grauer JN**, Rubin LE. Revision THA and TKA are associated with lower HCAHPS scores compared to primary arthroplasty. American Association of Hip and Knee Surgeons, Dallas, TX, November 2021. (Poster Presentation)
430. Serino J, Haynes M, Galivacne AR, **Grauer JN**, Karas V, Della Valle CJ. General vs neuraxial anesthesia in revision surgery for periprosthetic joint infection. American Association of Hip and Knee Surgeons, Dallas, TX, November 2021. (Poster Presentation)
431. Serino J, Galivacne AR, **Grauer JN**, Haynes M, Karas V, Della Valle CJ. General versus Neuraxial anesthesia in revision surgery for periprosthetic joint infection. Current Concepts in Joint Replacement, Orlando, FL, December 2021. (Poster Presentation)
432. Joo PY, Kammien AJ, McLaughlin W, **Grauer JN**. Clinical outcomes following four-level anterior cervical discectomy and fusion and posterior cervical fusion: a national database study. Orthopaedic Research Society, Tampa, FL, February 2022. (Poster Presentation)
433. Kammien AJ, Joo PY, Moore HG, **Grauer JN**. Emergency department visits within 90 days of isolated ankle fracture surgery: incidence, risk factors, and cost. Orthopaedic Research Society, Tampa, FL, February 2022. (Poster Presentation)
434. Caruana DL, Gouzoulis MJ, McLaughlin W, **Grauer JN**. Analysis of frequency, characteristics, and reasons for termination of shoulder- and elbow-related clinical trials.. Orthopaedic Research Society, Tampa, FL, February 2022. (Poster Presentation)
435. Zhu J, Joo PY, McLaughlin W, **Grauer JN**. Anterior cervical discectomy and fusion outcomes in patients who undergo bariatric surgery - does losing the weight matter?. Orthopaedic Research Society, Tampa, FL, February 2022. (Poster Presentation)
436. Zhu J, Galivacne AR, Joo PY, Gillinov SM, Kammien AJ, **Grauer JN**. Internal Classification of Diseases-10 (ICD-10) for inflammatory arthritis: not taking advantage of added granularity. Orthopaedic Research Society, Tampa, FL, February 2022. (Poster Presentation)
437. Gillinov SM, Joo PY, Zhu J, **Grauer JN**. Incidence, timing, and predictors of hip dislocation following primary total hip arthroplasty for osteoarthritis. Orthopaedic Research Society, Tampa, FL, February 2022. (Poster Presentation)
438. Gillinov SM, Burroughs PJ, Moore HG, Rubin LE, Frumberg DB, **Grauer JN**. Total hip arthroplasty in patients with classic hemophilia: a matched comparison of 90-day outcomes and five-year implant survival. Orthopaedic Research Society, Tampa, FL, February 2022. (Poster Presentation)
439. Serino J, Galivacne AR, **Grauer JN**, Haynes M, Karas V, Della Valle CJ. General versus neuraxial anesthesia in revision surgery for periprosthetic joint infection.. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Oral Presentation)
440. Joo PY, Modrak M, Park N, Rubin LE, **Grauer JN**, Bernstein J. Comparing venous thromboembolism prophylactic agents after hip fracture surgery: a national database study. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Oral Presentation)
441. Mercier M, Galivacne AR, Efthymiou L, Wilhelm CV, **Grauer JN**, Gardner E. Bucket handle meniscus tear management with meniscectomy versus repair correlates with demographic as well as socioeconomic and hospital factors.. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Oral Presentation)

442. Gouzoulis MJ, Joo PY, Kammien AJ, Galivanche AR, McLaughlin W, **Grauer JN** . Venous thromboembolism following foot and ankle fractures: incidence and risk factors.. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Oral Presentation)
443. Kammien AJ, Dennis DL, Galivanche AR, **Grauer JN** . Timing of complications within 90 days of hip fracture surgery.. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Poster Presentation)
444. Kebaish KJ, Galivanche AR, Varthi AG, **Grauer JN** . Is there utility to requiring spine MRI preauthorizations? A single institution's perspective. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Poster Presentation)
445. Kammien AJ, Joo PY, Moore HG, **Grauer JN** . Emergency department visits within 90 days of isolated ankle fracture surgery: incidence, risk factors, and cost.. American Academy of Orthopaedic Surgeons,, Chicago, IL, March 2022. (Poster Presentation)
446. Gillinov SM, Joo PY, Zhu J, **Grauer JN** . Incidence, timing, and predictors of hip dislocation following primary total hip arthroplasty for osteoarthritis. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Poster Presentation)
447. Mercier M, Galivanche AR, McLean RL, Kammien AJ, Toombs C, Rubio DR, Varthi AG, **Grauer JN** . The correlation of adverse events with patient reported satisfaction following elective posterior lumbar fusion surgery: a single institution analysis. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Poster Presentation)
448. Galivanche AR, Mercier M, Schneble C, Brand J, Pathak N, Varthi AG, Rubin LE, **Grauer JN** . Clinical characteristics and perioperative complication profiles of COVID-19 positive patients undergoing hip fracture surgery. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Poster Presentation)
449. Mercier M, Galivanche AR, Wiggins AJ, McLaughlin W, Kahan J, Radford Z, **Grauer JN** , Gardner E. Patient demographic factors associated with physical therapy utilization following uncomplicated meniscectomy. American Academy of Orthopaedic Surgeons, Chicago, IL, March 2022. (Poster Presentation)
450. Serino J, Haynes M, Galivanche AR, **Grauer JN** , Karas V, Della Valle CJ. General versus neuraxial anesthesia in revision surgery for periprosthetic joint infection.. Mid-America Orthopaedic Association, San Antonio, TX, April 2022. (Poster Presentation)
451. Kammien AJ, Galivanche AR, Gouzoulis MJ, Moore HG, Mercier M, **Grauer JN** . Single-level anterior cervical decompression and fusion 90-day postoperative emergency department visits are common with defined predictors and costs. American Orthopaedic Association, Providence, RI, June 2022. (Poster Presentation)
452. Joo PY, Caruana DL, Gouzoulis MJ, Moore HG, Zhu J, **Grauer JN** . Marfan syndrome and adolescent idiopathic scoliosis patients found to have similar ninety-day postoperative outcomes and five-year reoperation rates after spinal deformity surgeries. American Orthopaedic Association, Providence, RI, June 2022. (Poster Presentation)
453. Moore HG, Schneble C, Kahn JB, Frumberg DB, Donohue KW, Rubin LE, **Grauer JN** . Patients with cerebral palsy undergoing total shoulder arthroplasty experience greater odds of complications and worse implant survival at five years.. American Orthopaedic Association, Providence, RI, June 2022. (Poster Presentation)

454. Moore HG, Schneble C, Kahn JB, **Grauer JN** , Rubin LE. What factors affect whether patients return to the same surgeon to replace the contralateral joint? A study of over 200,000 patients.. American Orthopaedic Association,, Providence, RI, June 2022. (Poster Presentation)
455. Pathak N, Bovonratwet P, Purtill JJ, Bernstein J, Golden M, **Grauer JN** , Rubin LE. Incidence, Risk Factors, and Subsequent Complications of Postoperative Hematomas Requiring Reoperation after Primary Total Hip Arthroplasty. American Orthopaedic Association, Providence, RI, June 2022. (Poster Presentation)
456. Galivanche AR, Allahabadi S, **Grauer JN** , Rubin LE, Bini SA. Computer-assisted navigation in simultaneous bilateral knee arthroplasty. Western Orthopaedic Association, Kahului, HI, August 2022. (Oral Presentation)
457. Kammien AJ, Mookerjee V, Kim S, Prsic A, **Grauer JN** , Colen DL. Office-based hand surgery in the United States: trends in volume, reimbursement, and outcomes. American Society for Surgery of the Hand, Boston, MA, September 2022. (Oral Presentation)
458. Ratnasamy P, Kammien AJ, Gouzoulis MJ, **Grauer JN** . Emergency department visits within 90 days of total ankle arthroplasty. American Orthopedic Foot and Ankle Society, Québec City, QC, September 2022. (Poster Presentation)
459. Ratnasamy P, Gouzoulis MJ, Kammien AJ, **Grauer JN** . Physical therapy utilization within 90 days of total ankle arthroplasty. American Orthopedic Foot and Ankle Society, Québec City, QC, September 2022. (Oral Presentation)
460. Oghenesume OP, Gouzoulis MJ, Ratnasamy P, Dhodapakar MM, **Grauer JN** . Ulcerative colitis patients are at increased risk for adverse events after total hip arthroplasty. Student National Medical Association Region VII Medical Education Conference, Hamden, CT, October 2022. (Poster Presentation)
461. Ratnasamy P, Gouzoulis MJ, Kammien AJ, **Grauer JN** . Trends in interlaminar and transforaminal spinal epidural injection use from 2010-2019.. North American Spine Society, Chicago, IL, October 2022. (Oral Presentation)
462. Gouzoulis MJ, Zhu J, Gillinov SM, Kammien AJ, Moore HG, **Grauer JN** . Single-level posterior lumbar fusions in patients with Ehlers Danlos Syndrome not found to be associated with increased postoperative adverse events or five-year reoperations. North American Spine Society, Chicago, IL, October 2022. (Poster Presentation)
463. Kammien AJ, Mookerjee V, Kim S, Prsic A, **Grauer JN** , Colen DL. Office-based trigger finger release in the United States: trends in volume, reimbursement, and outcomes. American Society of Plastic Surgeons, Boston, MA, October 2022. (Poster Presentation)
464. Tang K, Day W, Joo PY, Medvecky MJ, **Grauer JN** . Usage trends, reoperation rates, and complication rates in meniscus transplantation. Eastern Orthopaedic Association, Naples, FL, October 2022. (Poster Presentation)
465. Maloy GC, Kammien AJ, Rubin LE, **Grauer JN** . Adverse events after total hip arthroplasty are not sufficiently characterized by 30 day follow-up. American Association of Hip and Knee Surgeons, Grapevine, TX, November 2022. (Poster Presentation)
466. **Grauer JN** , Jayaram RH, Gillinov SM, Caruana DL, Joo PY, Kammien AJ, Rubin LE. Clinical outcomes in navigated vs. non-navigated total hip arthroplasty: a national database study. American Association of Hip and Knee Surgeons, Grapevine, TX, November 2022. (Poster Presentation)

467. Kammien AJ, Kim S, Prsic A, **Grauer JN**, Colen DL. Carpal tunnel release performed under local anesthesia in the United States: trends in operative setting and reimbursement. American Association for Hand Surgery, Miami, FL, January 2023. (Oral Presentation)
468. Jayaram RH, Joo PY, Gouzoulis MJ, Caruana DL, **Grauer JN**. Single-level anterior cervical discectomy and fusion versus posterior cervical foraminotomy: Perioperative outcomes and five-year revision rates. Orthopaedic Research Society, Dallas, TX, February 2023. (Oral Presentation)
469. Day W, Ch'en PY, Ratnasamy P, **Grauer JN**. The effect of psoriasis treatments on postoperative infections following lumbar discectomy. Orthopaedic Research Societ, Dallas, TX, February 2023. (Oral Presentation)
470. Mercier M, Entezari B, Montreuil J, Carbon J, Moore HG, Wolfstadt JI, **Grauer JN**. Parkinson's disease patients experience higher odds of 90-day adverse events and lower 5-year implant survival following total joint arthroplasty: A matched cohort analysis. Orthopaedic Research Society,, Dallas, TX, February 2023. (Poster Presentation)
471. Dhodapakar MM, Galivanche AR, Halperin SJ, Elaydi A, **Grauer JN**. High rate of failure of one-stage irrigation and debridement of spine surgical site infections. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
472. Dhodapakar MM, Gouzoulis MJ, Halperin SJ, Rubin LE, **Grauer JN**. Emergency department and urgent care visits within 90 days following primary total hip arthroplasty. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
473. Halperin SJ, Dhodapakar MM, Gouzoulis MJ, Laurans M, Varthi AG, **Grauer JN**. Lumbar laminotomy: Variables affecting postoperative reimbursement.. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
474. Maloy GC, Halperin SJ, Ratnasamy P, **Grauer JN**. Characterizing gabapentinoid use among patients with isolated low back pain. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
475. Rudisill KE, Ratnasamy P, Maloy GC, **Grauer JN**. The fading gold standard: the decline in separate incision autograft for spine surgery over the past decade. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
476. Rudisill KE, Ratnasamy P, Joo PY, Lee RE, **Grauer JN**. A substantial number of total knee arthroplasty (TKA) patients undergo magnetic resonance imaging (MRI) in the year prior to surgery- a potential overutilization of healthcare resources. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
477. Ratnasamy P, Rudisill KE, Oghenwoma OP, Riedel MD, **Grauer JN**. Geriatric hip fracture patients are at greatest risk of contralateral hip fracture in the first years.. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
478. Ratnasamy P, Rudisill KE, Maloy GC, **Grauer JN**. Cervical disc arthroplasty usage leveling out 2010 to 2021. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
479. Ratnasamy P, Halperin SJ, Dodapkar M, Kammien AJ, Rubin LE, **Grauer JN**. Over 11% of patellofemoral arthroplasty patients visit the emergency department within 90 days of surgery. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
480. Ratnasamy P, Rudisill KE, Gouzoulis MJ, Kammien AJ, **Grauer JN**. Rheumatoid arthritis patients are at increased risk for adverse events following lumbar discectomy. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)

481. Ratnasamy P, Oghenwoma OP, Joo PY, **Grauer JN** . Billing rules / global period affect postoperative follow-up following total arthroplasty. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
482. Gillinov SM, Kim DK, Moran J, Lee MS, Fong S, Mahatme RJ, Simington J, Owens JS, McLaughlin W, **Grauer JN** , Jimenez AE. Low rates of five-year revision surgery and postoperative complications after primary hip arthroscopy in over 30,000 patients: A national study.. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
483. Gillinov SM, Kim DN, Islam WE, Lee MS, Moran J, Fong S, Mahatme RJ, Owens JS, **Grauer JN** , Jimenez AE. Association between insurance provider and postoperative complications, emergency department visits, and five-year revision after primary hip arthroscopy. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
484. Gillinov SB, Burroughs PJ, Moore HG, Rubin LE, Frumberg DB, **Grauer JN** . Total knee arthroplasty in patients with classic hemophilia: A matched comparison of 90-day outcomes and five-year implant survival. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
485. Gillinov SM, Burroughs PJ, Kahn JB, Moran J, Joo PY, Schneble C, Moore HG, **Grauer JN** , Medvecky MJ. Subsequent surgeries following osteochondral allograft and osteochondral autograft at up to ten years: An analysis of over 2,000 patients. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
486. Day W, Tang K, Joo PY, **Grauer JN** , Yalcin S, Wilhelm CV, Medvecky MJ. Predictive factors and 10-year national trend analysis of opioid prescriptions after arthroscopic rotator cuff repair. Orthopaedic Research Society, Dallas, TX, February 2023. (Poster Presentation)
487. Jayaram RH, Gillinov SM, Caruana DL, Kammien AJ, Joo PY, Rubin LE, **Grauer JN** . Total hip arthroplasty navigation not shown to have reduced 90-day adverse events or five-year revisions in a large national cohort. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2023. (Oral Presentation)
488. Gouzoulis MJ, Jayaram RH, Ratnasamy P, McLaughlin W, Kammien AJ, Medvecky MJ, **Grauer JN** . Risk factors for venous thromboembolism following anterior cruciate ligament reconstruction. American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 2023. (Oral Presentation)
489. Jayaram RH, Joo PY, Gouzoulis MJ, Caruana DL, **Grauer JN** . Single-level anterior cervical discectomy and fusion with lower five-year revisions than posterior cervical foraminotomy. American Academy of orthopaedic surgeons, Las Vegas, NV, March 2023. (Poster Presentation)
490. Oghenesume OP, Dhodapakar MM, Ratnasamy P, **Grauer JN** . Unlike tobacco users, documented cannabis users are not at an increased risk of adverse events following total hip arthroplasty. wilbert c. jordan student research forum at annual medical education conference, Hartford, CT, April 2023. (Poster Presentation)
491. Halperin SJ, Dhodapakar MM, Gouzoulis MJ, Laurans M, Varthi AG, **Grauer JN** . Lumbar laminotomy: variables affecting 90-day overall reimbursement. (Virtual). Medical student orthopaedic society symposium, New Haven, CT, April 2023. (Oral Presentation)
492. Dhodapakar MM, Gouzoulis MJ, Halperin SJ, Radford Z, Rubin LE, **Grauer JN** . Urgent care visits sought after primary total hip arthroplasty: a potentially overlooked resource. (Virtual). Medical student orthopaedic society symposium , New Haven, CT, April 2023. (Oral Presentation)
493. Dhodapakar MM, Halperin SJ, Joo PY, Maloy GC, Jeong S, Rubio DR, **Grauer JN** . Does weight loss make the difference? Outcomes following posterior lumbar fusion in patients with and without a

- history of bariatric surgery. Lumbar spine research society, Chicago, IL, May 2023. (Oral Presentation)
494. Ratnasamy P, Rudisill KE, Gouzoulis MJ, **Grauer JN** . Rheumatoid arthritis patients are at increased risk for adverse events following lumbar discectomy. Lumbar spine research society, Chicago, IL, May 2023. (Oral Presentation)
 495. Halperin SJ, Dhodapakar MM, Gouzoulis MJ, Laurans M, Varthi AG, **Grauer JN** . Lumbar laminotomy: variables affecting 90-day overall reimbursement. Lumbar spine research society, Chicago, IL, May 2023. (Poster Presentation)
 496. Dhodapakar MM, Galivanche AR, Halperin SJ, Elaydi A, **Grauer JN** . Postoperative spine surgical site infections: high rate of failure of one-stage irrigation and debridement. Association of bone and joint surgeons , Seattle, WA, July 2023. (Oral Presentation)
 497. Dhodapakar MM, Halperin SJ, Radford Z, Elaydi A, **Grauer JN** . Cefazolin alone versus cefazolin with tobramycin or gentamicin as inoperative antibiotic prophylaxis for total joint arthroplasty. Musculoskeletal infection society, Salt Lake City, UT, July 2023. (Poster Presentation)
 498. Ottesen TD, Amick M, Kirwin DS, Mercier M, Brand J, **Grauer JN** , Rubin LE. Increasing trend and value in subspecialty training: A comparison of variation in surgical outcomes for pediatric versus other fellowship-trained ABOS candidates in the treatment of supracondylar fractures. Orthopaedic summit 2023 , Boston, MA, September 2023. (Oral Presentation)
 499. Dhodapakar MM, Yang A, Jiang WM, Halperin SJ, Frumberg DB, **Grauer JN** . Outcomes among patients with cerebral palsy undergoing ankle open reduction internal fixation for ankle fractures. American Academy for cerebral palsy and development medicine, Chicago, IL, September 2023. (Poster Presentation)
 500. Ratnasamy P, Maloy GC, Oghenesume OP, Peden S, **Grauer JN** , Oh I. The burden of revision total ankle replacement has markedly increased from 2010 to 2020. American orthopaedic foot and ankle society , Louisville, KY, September 2023. (Poster Presentation)
 501. Gruskay J, Fu M, Buerba R, **Grauer JN** , Basques B, Bohl D, Webb M. Factors predicting complications and length of stay following elective cervical discectomy and fusion. North American Spine Society, New Orleans, LA, October 2023. (Poster Presentation)
 502. Ratnasamy P, Rudisill KE, Gouzoulis MJ, Kammien AJ, **Grauer JN** . Rheumatoid arthritis patients are at increased risk for adverse events following lumbar discectomy. North American Spine Society, Los Angeles, CA, October 2023. (Poster Presentation)
 503. Pathak N, Ratnasamy P, Oghenesume OP, Halim A, Luo XS, **Grauer JN** . Documented cannabis use is a risk factor for nonunion after nonoperative management of scaphoid fractures: a retrospective review of 159,998 patients. American society for surgery of the hand, Toronto, ON, October 2023. (Oral Presentation)
 504. Sanchez J, Dhodapakar MM, Halperin SJ, **Grauer JN** , Rubin LE. THA length of stay trends following the inpatient-only list removal.. Eastern orthopaedic association, Charleston, SC, October 2023. (Poster Presentation)
 505. Rudisill KE, Ratnasamy P, Sanchez JG, **Grauer JN** . Disparities in DEXA scan utilization varies across racial/ethnic groups prior to and after hip fractures. Radiological society of north america, Chicago, IL, November 2023. (Oral Presentation)
 506. Rudisill KE, Dhodapakar MM, Ratnasamy P, Jeong S, **Grauer JN** . Total versus localized spine magnetic resonance imaging (MRI) utilization traced over a decade in a cohort of emergency

- department patients.. Radiological society of north america, Chicago, IL, November 2023. (Oral Presentation)
507. Rudisill KE, Ratnasamy P, Joo PY, Rubin LE, **Grauer JN** . A substantial number of total knee arthroplasty (TKA) patients undergo magnetic resonance imaging (MRI) in the year prior to surgery- a potential overutilization of healthcare resources. Radiological society of north america, Chicago, IL, November 2023. (Oral Presentation)
 508. Halperin SJ, Dhodapakar MM, Radford Z, Rubin LE, **Grauer JN** . Patients with cystic fibrosis undergoing total hip and total knee arthroplasty are at increased risk of perioperative complications. American association of hip and knee surgeons, Grapevine, TX, November 2023. (Poster Presentation)
 509. Day W, Jayaram RH, Rubin LE, **Grauer JN** . Total hip arthroplasty in patients with Marfan syndrome: Adverse events and 5-year revision rates. American association of hip and knee surgeons , Grapevine, TX, November 2023. (Poster Presentation)
 510. Kammien AJ, Kim S, Parikh N, Zhao KL, **Grauer JN** . Wide-awake digital flexor tendon repair: a nationwide analysis of postoperative events and reimbursement. New england hand society, Sturbridge, MA, December 2023. (Oral Presentation)
 511. Kammien AJ, Hu KG, Collar J, Zhao KL, **Grauer JN** , Colen DL. The correlation of surgical setting with opioid prescriptions following wide-awake carpal tunnel release: a nationwide analysis. New England hand society, Sturbridge, MA, December 2023. (Oral Presentation)
 512. Kammien AJ, Zhao KL, **Grauer JN** , Colen DL. Wide-awake palmar fasciectomy for dupuytren's contracture: a nationwide analysis of reimbursement and adverse events. American association of hand surgery, Nassau, New Providence, January 2024. (Oral Presentation)
 513. Kammien AJ, Hu KG, Zhao KL, Collar J, **Grauer JN** , Colen DL. The correlation of surgical setting with narcotic prescriptions following wide-awake carpal tunnel release: a nationwide analysis. American association for hand surgery, Nassau, New Providence, January 2024. (Oral Presentation)
 514. Pathak N, Ratnasamy P, Oghenesume OP, Luo XS, **Grauer JN** , Halim A. Documented cannabis use is a risk factor for nonunion after nonoperative management of scaphoid fractures: a retrospective review of 159,998 patients.. American association of hand surgery, Nassau, New Providence, January 2024. (Oral Presentation)
 515. Kim L, Franklin CC, **Grauer JN** . Disparities in pediatric anterior cruciate ligament injury related care for Medicaid patients show improvements from 2015 to 2020: a retrospective database study. Pediatric research in sports medicine society , Anaheim, CA, January 2024. (Oral Presentation)
 516. Zehner K, Dhodapakar MM, Santos E, Gardner E, **Grauer JN** . Surgical treatment and MRI utilization in pediatric tibial spine fractures. Pediatric Research in sports medicine society, Anaheim, CA, January 2024. (Poster Presentation)
 517. Ratnasamy P, Oghenesume OP, Rudisill KE, Sanchez J, **Grauer JN** . Antidepressant prescriptions at the time of total knee arthroplasty and increased risk of postoperative complications: implications for risk stratification. Orthopaedic research society, Long Beach, CA, February 2024. (Oral Presentation)
 518. Ratnasamy P, Diatta F, Allam O, Maloy GC, **Grauer JN** . Behcet's syndrome patients are at increased risk of postoperative complications following total hip arthroplasty and total knee arthroplasty. Orthopaedic research society, Long Beach, CA, February 2024. (Poster Presentation)

519. Ratnasamy P, Maloy GC, Oghenesume OP, Peden S, **Grauer JN** . The burden of revision total ankle replacement has only modestly increased from 2010-2020. Orthopaedic research society, Long Beach, CA, February 2024. (Poster Presentation)
520. Ratnasamy P, Rudisill KE, Joo PY, Lattanza L, **Grauer JN** . Usage of endoscopic carpal tunnel release has gradually increased over time and exceeded 25% of carpal tunnel releases by 2021. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
521. Smith-Voudouris JJ, Dhodapakar MM, **Grauer JN** . Following posterior lumbar fusion, patients with asthma are at increased odds of both pulmonary and non-pulmonary perioperative adverse events.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
522. Smith-Voudouris JJ, Dhodapakar MM, **Grauer JN** . Patients with asthma are at increased odds of both pulmonary and non-pulmonary perioperative adverse events following total knee arthroplasty. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
523. Smith-Voudouris JJ, Dhodapakar MM, Halperin SJ, **Grauer JN** . Atopic dermatitis (eczema) and its treatment medication increases risk of adverse events following total knee arthroplasty. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
524. Gouzoulis MJ, Moran J, Jeong S, Galivanche AR, Kammien AJ, **Grauer JN** . Physical therapy utilization following single level posterior lumbar fusion. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
525. Gouzoulis MJ, Yang A, Joo PY, Frumberg DB, Colen DL, **Grauer JN** . Emergency department visits after pediatric supracondylar humerus fracture.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
526. Gouzoulis MJ, Kammien AJ, Seddio AE, Yang A, Colen DL, **Grauer JN** . Opioid utilization following pediatric distal radius fracture: A national database study. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
527. Gouzoulis MJ, Jabbouri SS, Seddio AE, Day W, Moran J, **Grauer JN** . Inpatient fall risk following single-level posterior lumbar fusion: A national registry study. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
528. Kim L, Halperin SJ, **Grauer JN** . Surgical site infection following lumbar discectomy does not change long-term risk of reoperation.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
529. Kim L, Wiznia DH, **Grauer JN** . Patients with diabetes on SGLT2 inhibitors undergoing total knee replacement are at increased odds for a number of postoperative adverse events, but reduced risk of transfusion. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
530. Kim L, **Grauer JN** . Trends in usage of ACDF implants show large increase in synthetic cage use over structural allograft. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
531. Kim L, Franklin C, **Grauer JN** . Decreasing insurance disparities in pediatric ACL injury care 2015-2020.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
532. Dhodapakar MM, Halperin SJ, Day W, Saifi C, Rubio DR, Koumpouras F, **Grauer JN** . Outcomes following single level posterior lumbar fusion in patients with systemic and discoid lupus. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)

533. Dhodapakar MM, Halperin SJ, Radford Z, Rubin LE, **Grauer JN** , Li M. Li M. Cefazolin alone versus cefazolin with tobramycin or gentamicin as intraoperative antibiotic prophylaxis for total joint arthroplasty. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
534. Dhodapakar MM, Dahodwala T, Halperin SJ, Rubio DR, **Grauer JN** . Trends and factors associated with the utilization of BMP for single-level stand-alone anterior or single-level posterior lumbar fusion. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
535. Halperin SJ, Dhodapakar MM, Moran J, Jeong S, **Grauer JN** , Varthi A. Geriatric vertebral compression fracture: Characterizing use and trends for prescribed thoracic/lumbar orthoses. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
536. Halperin SJ, Dhodapakar MM, McLaughlin W, Hewett TE, **Grauer JN** , Medvecky MJ. Rate and timing of revision and contralateral anterior cruciate ligament reconstruction relative to index surgery.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
537. Halperin SJ, Dhodapakar MM, Pathak N, Joo PY, Luo XS, **Grauer JN** . Following carpal tunnel release, what factors are associated with patients returning to the same or different hand surgeon for a subsequent procedure?. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
538. Gillinov SM, Islam WE, Modrak M, Mahatme RJ, McLaughlin W, Surus ZS, Moran J, Lee MS, Wilhelm CV, **Grauer JN** , Jimenez AE. Female patients undergoing latarjet surgery demonstrate similar two-year secondary surgery rates but greater risk of emergency department visits compared to a matched cohort of male patients.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
539. Zehner K, Zhu J, **Grauer JN** . Meniscus coding in ICD-10 vs. ICD-9: A missed opportunity to utilize coding granularity. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
540. Zehner K, Sanchez J, Dhodapakar MM, Modrak M, **Grauer JN** . Total shoulder arthroplasty for patients with Factor V Leiden: Defining perioperative adverse events and five-year survival. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
541. Zehner K, Dhodapakar MM, Santos E, Gardner E, **Grauer JN** . Pediatric tibial spine fractures: Surgical treatment and MRI utilization. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
542. Zhu J, Gouzoulis MJ, Gillinov S, Galivanche AR, Joo PY, **Grauer JN** . International Classification of Diseases-10 (ICD-10) for inflammatory arthritides: not taking advantage of added granularity.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
543. Rudisill KE, Dhodapakar MM, Ratnasamy P, Jeong S, **Grauer JN** . Growing utilization of total relative to localized spine magnetic resonance imaging (mri) for patients presenting through the emergency departments over the past decade. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
544. Salib A, Sanchez J, Huggins L, Smith-Voudouris JJ, Dhodapakar MM, Koumpouras F, **Grauer JN** . Outcomes following total shoulder arthroplasty in patients with systemic lupus erythematosus.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
545. Jiang WM, Sanchez J, Dhodapakar MM, Wiznia DH, **Grauer JN** . Femoral head core decompressions: characterization of subsequent conversion to total hip arthroplasty and related complications. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)

546. Jayaram RH, Kim L, Day W, Rubin LE, **Grauer JN** . Factors for perioperative nerve injury related to total knee arthroplasty.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
547. Jayaram RH, Day W, Gouzoulis MJ, Zhu J, Rubin LE, **Grauer JN** . Risk factors for perioperative nerve injury related to total hip arthroplasty. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
548. Day W, Gouzoulis MJ, Jayaram RH, **Grauer JN** . The role of emergency department utilization after elbow arthroscopy. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
549. Gillinov S, Modrak M, Park N, Wilhelm CV, Lee MS, **Grauer JN** , Jimenez AE. Total shoulder arthroplasty in patients with classic hemophilia: Greater incidence of bleeding and thromboembolic events but equivalent 5-year implant survival. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
550. Sanchez J, Jiang WM, Dhodapakar MM, Radford Z, Rubin LE, **Grauer JN** . Geriatric hip fracture patients with a COVID-19 diagnosis within one week of surgical stabilization are at greatest risk of perioperative adverse events.. Orthopaedic Research Society, Long Beach, CA, February 2024. (Poster Presentation)
551. Day W, Joo PY, Gouzoulis MJ, **Grauer JN** . Fading use of arthrodesis and prosthetic arthroplasty for basal joint arthritis. American Academy of Orthopaedic Surgeons, San Francisco, CA, February 2024. (Poster Presentation)
552. Pathak N, Ratnasamy P, Oghenesume OP, Luo XS, **Grauer JN** , Halim A. Documented cannabis use is a risk factor for nonunion after nonoperative management of scaphoid fractures: A retrospective review of 159,998 patients.. American Academy of Orthopaedic Surgeons, San Francisco, CA, February 2024. (Oral Presentation)
553. Oghenesume OP, Dhodapakar MM, Ratnasamy P, Radford Z, Rubin LE, **Grauer JN** . Unlike tobacco users, cannabis users are not at an increased risk of adverse events following THA. American Academy of Orthopaedic Surgeons, San Francisco, CA, February 2024. (Oral Presentation)
554. Smith-Voudouris JJ, Dhodapakar MM, Halperin SJ, **Grauer JN** . Atopic dermatitis (eczema) and its treatment medication increases risk of adverse events following total knee arthroplasty. American Academy of Orthopaedic Surgeons, San Francisco, CA, February 2024. (Poster Presentation)
555. Gouzoulis MJ, Kammien AJ, Seddio AE, Yang A, Colen DL, **Grauer JN** . Opioid utilization following pediatric distal radius fracture: A national database study.. Maryland Orthopaedic Association, Baltimore, MD, February 2024. (Poster Presentation)
556. Seddio AE, Vasudevan RS, Gouzoulis MJ, Ansah-Twum J, Rubin LE, **Grauer JN** . Superior postoperative outcomes following total knee arthroplasty are associated with as short as one-month of semaglutide use for patients with type II diabetes.. Northeast Arthroplasty Conference, Providence, RI, March 2024. (Oral Presentation)
557. Seddio AE, Hosseini H, Vasudevan RS, Gouzoulis MJ, Rubin LE, **Grauer JN** . Following total hip arthroplasty, patients with systemic sclerosis have worse 90-day outcomes independent of commonly utilized immunomodulatory therapy regimens. Northeast Arthroplasty Conference, Providence, RI, March 2024. (Poster Presentation)
558. Gouzoulis MJ, Seddio AE, Kaszuba S, Rubin LE, **Grauer JN** , Li M. Where are patients being discharged following revision hip and knee arthroplasty? A national registry study.. Northeast Arthroplasty Conference, Providence, RI, March 2024. (Poster Presentation)

559. Gouzoulis MJ, Vasudevan RS, Kaszuba S, Seddio AE, Rubin LE, **Grauer JN** , Li M. Femoral neck fractures: incidence, reasons, and risk factors for conversion from hemiarthroplasty to total hip arthroplasty. Northeast Arthroplasty Conference, Providence, RI, March 2024. (Poster Presentation)
560. Kim L, Zehner K, Halperin SJ, **Grauer JN** . Following total knee arthroplasty, patients with autism are at increased risk of several perioperative adverse events but similar five-year implant survival: A retrospective database study.. Northeast Arthroplasty Conference, Providence, RI, March 2024. (Poster Presentation)
561. Jayaram RH, Day W, Gouzoulis MJ, Zhu J, **Grauer JN** , Rubin LE. Risk Factors for perioperative nerve injury related to total hip arthroplasty. Northeast Arthroplasty Conference, Providence, RI, March 2024. (Poster Presentation)
562. Jayaram RH, Kim L, Day W, Rubin LE, **Grauer JN** . Risk factors for perioperative nerve injury related to total knee arthroplasty.. Northeast Arthroplasty Conference, Providence, RI, March 2024. (Poster Presentation)
563. Zhu J, Seddio AE, Gouzoulis MJ, Day W, **Grauer JN** . Does subspecialty matter: outcomes after femoral ankle fracture surgery. Asian Pacific American Association Medical Student Association, Las Vegas, NV, March 2024. (Poster Presentation)
564. Zhu J, Seddio AE, Gouzoulis MJ, Day W, **Grauer JN** . Does subspecialty matter: outcomes after orthopaedic femoral neck fracture surgery.. Medical Student Orthopaedic Symposium, New Haven, CT, April 2024. (Poster Presentation)
565. Rudisill KE, Dhodapakar MM, Ratnasamy P, Jeong S, **Grauer JN** . Total versus localized spine magnetic resonance imaging (MRI) utilization traced over a decade in a cohort of emergency department patients. American College of Radiology, Washington, DC, April 2024. (Poster Presentation)
566. Rudisill KE, Ratnasamy P, Sanchez J, **Grauer JN** . Disparities in DEXA scan utilization varies across racial/ethnic groups prior to and after hip fractures.. American College of Radiology, Washington, DC, April 2024. (Poster Presentation)
567. Ansh-Twum J, Seddio AE, Vasudevan RS, Gouzoulis MJ, Rubin LE, **Grauer JN** . Superior postoperative outcomes following total knee arthroplasty are associated with as short as one-month of Semaglutide use for patients with type II diabetes.. Connecticut Orthopaedic Society, Plainville, CT, May 2024. (Poster Presentation)
568. Ratnasamy P, Maloy GC, Oghenesume OP, Peden S, **Grauer JN** , Oh I. Trends in revision total ankle replacement from 2010 to 2020.. International Federation of Foot and Ankle Societies (IFFAS), Seoul, Seoul, May 2024. (Oral Presentation)
569. Kammi AJ, Parikh N, Zhao KL, Clune JE, **Grauer JN** , Colen DL. Wide-awake digital flexor tendon repair: A nationwide analysis of postoperative events and reimbursement.. Plastic Surgery Research Council, Boston, MA, May 2024. (Oral Presentation)
570. Kammi AJ, Mookerjee VG, Kim S, Alperovich MA, Prsic A, **Grauer JN** , Colen DL. Wide-awake hand surgery in the office: Trends, reimbursement, opioids and adverse events. American Association of Plastic Surgeons, Boston, MA, May 2024. (Poster Presentation)
571. Hosseini H, Kammi AJ, Hu KG, Yu C, Mujadzic M, **Grauer JN** , Colen DL. The impact of human immunodeficiency virus and antiretroviral therapy status on distal radius fractures management and complications. American Association of Plastic Surgeons, Boston, MA, May 2024. (Poster Presentation)

572. Rancu AL, Sanchez JG, Jonnalagadda A, Katsnelson BM, Vasudevan RS, **Grauer JN** . Increase in 90-day postoperative adverse outcomes in patients with fibromyalgia following lumbar discectomy. Lumbar Spine Research Society, Chicago, IL, May 2024. (Poster Presentation)
573. Gouzoulis MJ, Seddio AE, Zhu J, **Grauer JN** . Renal transplant patients have significantly increase odds of perioperative adverse events following lumbar laminotomy/discectomy. Lumbar Spine Research Society, Chicago, IL, May 2024. (Poster Presentation)
574. Day W, Gouzoulis MJ, Zhu J, Seddio AE, **Grauer JN** . New-onset depression following posterior lumbar fusion: National trends and risk factors.. Lumbar Spine Research Society, Chicago, IL, May 2024. (Poster Presentation)
575. Kim L, **Grauer JN** . Revisiting the consistency of financial disclosure reporting by authors at annual spine conferences show persistent inconsistencies after 14 years. Association Bone and Joint Surgeons, Montreal, QC, June 2024. (Oral Presentation)
576. Kammien AJ, Rancu AL, Kim S, Parikh N, Clune JE, **Grauer JN** , Colen DL. A nationwide analysis of complications and cost of wide-awake flexor tendon repairs. New England Society of Plastic and Reconstructive Surgeons, Concord, NH, June 2024. (Oral Presentation)
577. Seddio AE, McNamara KF, Gouzoulis MJ, Jabbouri SS, Ratnasamy P, Rubio DR, **Grauer JN** . Comparable risk of adverse events following cervicothoracic interlaminar and transforaminal epidural injections: An analysis of 1.29 million patients. North American Spine Society, Chicago, IL, September 2024. (Oral Presentation)
578. Day W, Gouzoulis MJ, Zhu J, Seddio AE, **Grauer JN** . National trends and risk factors for new-onset depression following posterior lumbar fusion. North American Spine Society, Chicago, IL, September 2024. (Oral Presentation)
579. Seddio AE, Gouzoulis MJ, Vasudevan RS, Dhodapakar MM, Jabbouri SS, Zhu J, Rubio DR, **Grauer JN** . Semaglutide associated with improved postoperative outcomes following single-level posterior lumbar fusion for patients with type II diabetes. North American Spine Society, Chicago, IL, September 2024. (Oral Presentation)
580. Rancu AL, Gouzoulis MJ, Winter AD, Katsnelson BM, Ansh-Twum J, **Grauer JN** . Opioid prescription patterns following single-level lumbar discectomy: A national database study.. North American Spine Society, Chicago, IL, September 2024. (Oral Presentation)
581. Seddio AE, Gouzoulis MJ, Smith-Voudouris JJ, Day W, Rubio DR, **Grauer JN** . Testosterone replacement therapy associated with increased 90-day postoperative adverse events and 5-year reoperation following lumbar discectomy. North American Spine Society, Chicago, IL, September 2024. (Poster Presentation)
582. Gouzoulis MJ, Seddio AE, Zhu J, Day W, Jabbouri SS, Rubio DR, **Grauer JN** . Renal transplant patients at increased odds off many perioperative adverse events following lumbar laminotomy/discectomy.. North American Spine Society, Chicago, IL, September 2024. (Poster Presentation)
583. Yu C, Kammien AJ, **Grauer JN** , Colen DL. Distal radius fracture repair in the solid organ transplant population: A national database study of wound and union complications. American Society for Surgery of the Hand,, Minneapolis, MN, September 2024. (Poster Presentation)
584. Rancu AL, Kammien AJ, Katsnelson BM, Diatta F, Lewis KM, **Grauer JN** , Colen DL. ncidence and predictors of pediatric hand and wrist ganglion cyst surgery.. Plastic Surgery: The Meeting, San Diego, CA, September 2024. (Oral Presentation)

585. Ratnasamy P, Gouzoulis MJ, Rubio DR, **Grauer JN** . Single versus multilevel fusions in setting of multilevel lumbar decompressions. Clinical Orthopedic Society, Tampa, FL, September 2024. (Oral Presentation)
586. Ratnasamy P, Allam O, Kammien AJ, **Grauer JN** . Distal Radius fractures requiring delayed surgical intervention.. Clinical Orthopedic Society, Tampa, FL, September 2024. (Poster Presentation)
587. Ratnasamy P, Gouzoulis MJ, Varthi AG, **Grauer JN** . Two-level ACDF versus two-level cervical disc arthroplasty. Clinical Orthopedic Society, Tampa, FL, September 2024. (Poster Presentation)
588. Ratnasamy P, Gouzoulis MJ, Kaszuba S, Rudisill KE, **Grauer JN** , Rubin LE. Indications and outcomes of total hip arthroplasty in patients 15-45.. Clinical Orthopedic Society, Tampa, FL, September 2024. (Poster Presentation)
589. Katsnelson BM, Rancu AL, Winter AD, Jonnalagadda A, Smith-Voudouris JJ, **Grauer JN** . Sleep apnea increases odds of postoperative complications following lumbar discectomy. Clinical Orthopedic Society, Tampa, FL, September 2024. (Poster Presentation)
590. Katsnelson BM, Jonnalagadda A, Rancu AL, Winter AD, **Grauer JN** . Migraines are a risk factor for many complications following single-level ACDF. Clinical Orthopedic Society, Tampa, FL, September 2024. (Poster Presentation)
591. Day W, Gouzoulis MJ, Seddio AE, Rubin LE, **Grauer JN** , Li M. High BMI does not change the proportion of total hip arthroplasty performed outpatient versus inpatient.. Clinical Orthopedic Society, Tampa, FL, September 2024. (Poster Presentation)
592. Day W, Seddio AE, Gouzoulis MJ, Li M, **Grauer JN** , Rubin LE. Outpatient total hip arthroplasty is safe in high BMI patients. Clinical Orthopedic Society, Tampa, FL, September 2024. (Poster Presentation)
593. Gouzoulis MJ, Kammien AJ, Modrak M, Yang A, Colen DL, **Grauer JN** . Distal radius fracture repair in adults with cerebral palsy.. American Academy for Cerebral Palsy and Developmental Medicine, Québec City, QC, October 2024. (Oral Presentation)
594. Gouzoulis MJ, Yang A, Seddio AE, Smith A, **Grauer JN** , Frumberg DB. Women with cerebral palsy receive significantly less gynecologic preventative care. American Academy for Cerebral Palsy and Developmental Medicine, Québec City, QC, October 2024. (Oral Presentation)
595. Gouzoulis MJ, Yang A, Seddio AE, **Grauer JN** , Frumberg DB. Why do adults with cerebral palsy get hospitalized?. American Academy for Cerebral Palsy and Developmental Medicine, Québec City, QC, October 2024. (Oral Presentation)
596. Gouzoulis MJ, Dhodapakar MM, Yang A, Pastor T, **Grauer JN** , Frumberg DB. Frumberg DB. Cardiovascular disease in adults with cerebral palsy. American Academy for Cerebral Palsy and Developmental Medicine, Québec City, QC, October 2024. (Oral Presentation)
597. Seddio AE, Vasudevan RS, Gouzoulis MJ, Ansah-Twum J, **Grauer JN** , Rubin LE. Three-months of preoperative Semaglutide use is associated with reduced severe adverse events after total knee arthroplasty.. Association of Perioperative Nurses Connecticut, New Haven, CT, October 2024. (Poster Presentation)
598. Jayaram RH, Rancu AL, Ratnasamy P, **Grauer JN** . Shifting patterns in single-level vertebral augmentation procedures: A decline in vertebroplasty utilization compared to kyphoplasty from 2010 to 2021.. Radiologic Society North America, Chicago, IL, December 2024. (Oral Presentation)

Regional

1. Magit D, Maak T, Hammouri Q, Rahpael B, Albert T, **Grauer JN** . Healos/ rhGDF-5 induces fusion in a rabbit posterolateral lumbar fusion model. International Society for the Study of the Lumbar Spine, New York, NY, May 2005. (Poster Presentation)
2. Biyani A, Patel T, **Grauer JN** , Vishnubhotla SL, Matyasch AJ, Vadapalli S, Cowgill I, Sairyo K, Goel VK. The effect of disc arthroplasty design on lumbar kinematics and loading as seen in a finite element model analysis. Spine Arthroplasty Society, New York, NY, May 2005. (Lecture)
3. Pierce AR, **Grauer JN** , Nash T, Chouinard L, St. Pierre A, Toth CA. Distribution of 125OP-1 putty after posterolateral lumbar spine fusion in the New Zealand white rabbit. International Society for the Study of the Lumbar Spine, New York, NY, May 2005. (Lecture)
4. Magit D, Maak T, Hammouri Q, Rahpael B, Albert T, **Grauer JN** . Healos/ rhGDF-5 induces fusion in a rabbit posterolateral lumbar fusion model. North American Spine Society, Philadelphia, PA, September 2005. (Poster Presentation)
5. White AP, Maak T, Prince D, Hilibrand AS, Albert TJ, Vaccaro AR, Chiba K, Kato M, **Grauer JN** . Gene expression associated with pseudarthrosis repair by OP-1 or autograft in a nicotine-exposed rabbit model. Eastern Orthopaedic Association, Cambridge, MD, October 2005. (Oral Presentation)
6. Magit D, Maak T, Hammouri Q, Rahpael B, Albert T, **Grauer JN** . Healos/ rhGDF-5 induces fusion in a rabbit posterolateral lumbar fusion model. Eastern Orthopaedic Association, Cambridge, MD, October 2005. (Oral Presentation)
7. White AP, Maak T, Prince D, Hilibrand AS, Albert TJ, Vaccaro AR, Chiba K, Kato M, **Grauer JN** . Gene expression associated with pseudarthrosis repair by OP-1 or autograft in a nicotine-exposed rabbit model. New England Orthopaedic Society, Boston, MA, November 2005. (Oral Presentation)
8. White AP, Maak T, Prince D, Hilibrand AS, Albert TJ, Vaccaro AR, Chiba K, Kato M, **Grauer JN** . Gene expression associated with pseudarthrosis repair by OP-1 or autograft in a nicotine-exposed rabbit model. OREF New York Resident Research Competition, New York, NY, May 2006. (Oral Presentation)
9. White AP, Maak T, Prince D, Hilibrand AS, Albert TJ, Vaccaro AR, Chiba K, Kato M, **Grauer JN** . Gene expression associated with pseudarthrosis repair by OP-1 or autograft in a nicotine-exposed rabbit model. OREF New England Resident Research Competition, Boston, MA, May 2006. (Oral Presentation)
10. White AP, Biswas D, Haims A, Smart LR, **Grauer JN** . The utility of flexion – extension radiographs in evaluation of the degenerative cervical spine. Eastern Orthopaedic Association, Boca Raton, FL, October 2006. (Oral Presentation)
11. White AP, Biswas D, Haims A, Smart LR, **Grauer JN** . The utility of flexion – extension radiographs in evaluation of the degenerative cervical spine. Connecticut State Orthopaedic Society, Farmington, CT, October 2006. (Oral Presentation)

Professional Service:

Journal Services

Editorial boards

2019 - Present Editor-in-Chief, North American Spine Society Journal

Professional Organizations

American Academy of Orthopaedic Surgeons

2010 - 2016 Member, American Academy of Orthopaedic Surgeons, Adult Spine Evaluation Subcommittee

Lumbar Spine Research Society

2016 - Present Member, Lumbar Spine Research Society, Program Co-Chair for 2016 and 2017 Annual Meeting

North American Spine Society

2016 - Present Member, North American Spine Society, Program Co-Chair for 2017 Annual Meeting

Yale University / Hospital System

University

2013 - 2015 Advisor, Center for Engineering Innovation and Design (CEID) Faculty Advisory Group

2018 - Present Fellow, Saybrook College

Medical School

2005 - Present Member, Medical Student Thesis Committee Chairperson for Orthopaedics and Rehabilitation

2012 - 2013 Member, Task Force on Student Research and Yale MD Thesis

2016 - 2019 Member, Senior Appointments and Promotions Committee

2017 - 2018 Member, Task Force on the Yale System, Clerkship Grading and the Medical Student Performance Evaluation (MSPE)

2017 - 2019 Member, Yale Medicine Finance Committee

2017 - 2019 Member, Yale Medicine Board

2018 - 2019 Member, Yale Medicine Patient Access Executive Steering Committee

2018 - Present Member, Yale Distinguished Clinical Career Award Development and Selection Committee

2019 - 2021 Member, Yale Medicine Quality Cabinet

2021 - 2022 Member, Yale School of Medicine Internal Funds Flow Initiative (Clinical Workstream)

Department

2014 - 2016 Member, Orthopaedic Section Chiefs

2016 - 2017 Chair, Data, Information and Outcomes, Department of Orthopaedics

2020 - Present Member, Executive Committee

2023 - 2024 Co-Chair, Orthopaedic Compensation Plan Committee

Hospital

2014 - 2015	Co-Chair, Yale New Haven Hospital Spine Center Steering Committee
2014 - 2018	Member, Yale New Haven Hospital Disease Specific Certification for the Spine Service Steering Committee
2015 - 2018	Member, Yale New Haven Health System Physician Assistant / Nurse Practitioner Clinical Ladder Promotion Committee
2017 - 2020	Member, Yale New Haven Hospital Perioperative Leadership Committee
2017 - 2019	Member, Yale New Haven Hospital Medical Executive Committee
2017 - 2018	Chair, Yale New Haven Health System Surgeon Advisory Committee on Operating Room Osteobiologic Products
2018 - 2020	Member, Yale New Haven Hospital Pharmacy and Therapeutics Committee
2018	Member, Yale New Haven Hospital Medical Executive Committee Task Force on Call Pannels
2019 - 2020	Member, Yale New Haven Health System Patient Safety Indictors Pulmonary Embolus / Deep Vein Thrombosis Team
2020 - 2021	Member, Yale New Haven Health System Care Signature Councils for the Orthopedics and Spine Service Lines

Public Service / Media Presence

Media Presence

2023 - Present	Featured Expert and Consultant, AAOS Headline News Now. "Study finds comparable rates of subsequent surgery after osteochondral allograft versus autograft"
2023 - Present	Featured Expert and Consultant, AAOS Headline News Now. "Today's Top Story: Timing of Adverse Events within 90 Days of Hip Fracture Surgery"
2023 - Present	Featured Expert and Consultant, AAOS Headline News Now. "Today's Top Story: THA and TKA Patients with Down Syndrome Have Greater Risk of Perioperative Complications"
2024 - Present	Featured Expert and Consultant, AAOS Headline News Now. "In other news: Do Intra-Articular Corticosteroid Injections Increase Risk of Infection after Hip Arthroscopy?"
2024 - Present	Featured Expert and Consultant, AAOS Headline News Now. "In Other News: Patients With Cystic Fibrosis Undergoing THA and TKA Are at Increased Risk for 90-Day Complications"
2024 - Present	Featured Expert and Consultant, AAOS Headline News Now. "Today's Top Story: TKA Patients with Asthma Have Increased Risk of 5-Year Revisions"

Bibliography:

Peer-Reviewed Original Research

1. Redlich CA, **Grauer JN** , Van Bennekum AM, Clever SL, Ponn RB, Blaner WS. Characterization of carotenoid, vitamin A, and alpha-tocopherol levels in human lung tissue and pulmonary macrophages. American Journal Of Respiratory And Critical Care Medicine 1996, 154: 1436-1443. [PMID: 8912761](#) , [DOI: 10.1164/ajrccm.154.5.8912761](#) .

2. Nibu K, Cholewicki J, Panjabi MM, Babat LB, **Grauer JN** , Kothe R, Dvorak J. Dynamic elongation of the vertebral artery during an in vitro whiplash simulation. *European Spine Journal* 1997, 6: 286-289. [PMID: 9294757](#) , [PMCID: PMC3454651](#) , [DOI: 10.1007/bf01322455](#) .
3. **Grauer J** , Panjabi M, Cholewicki J, Nibu K, Dvorak J. Whiplash Produces an S-Shaped Curvature of the Neck With Hyperextension at Lower Levels. *Spine* 1997, 22: 2489-2494. [PMID: 9383854](#) , [DOI: 10.1097/00007632-199711010-00005](#) .
4. Panjabi MM, Cholewicki J, Nibu K, **Grauer J** , Babat LB, Dvorak J. Critical load of the human cervical spine: an in vitro experimental study. *Clinical Biomechanics* 1998, 13: 11-17. [PMID: 11415766](#) , [DOI: 10.1016/s0268-0033\(97\)00057-0](#) .
5. Wolfe S, Swigart C, **Grauer J** , Slade J, Panjabi M. Augmented external fixation of distal radius fractures: A biomechanical analysis. *The Journal Of Hand Surgery* 1998, 23: 127-134. [PMID: 9523966](#) , [DOI: 10.1016/s0363-5023\(98\)80100-7](#) .
6. Panjabi MM, Cholewicki J, Nibu K, **Grauer JN** , Babat LB, Dvorak J. Mechanism of whiplash injury. *Clinical Biomechanics* 1998, 13: 239-249. [PMID: 11415793](#) , [DOI: 10.1016/s0268-0033\(98\)00033-3](#) .
7. Panjabi M, Cholewicki J, Nibu K, **Grauer J** , Vahldiek M. Capsular Ligament Stretches During In Vitro Whiplash Simulations. *Clinical Spine Surgery A Spine Publication* 1998, 11: 227-232. [PMID: 9657548](#) , [DOI: 10.1097/00002517-199806000-00009](#) .
8. Cholewicki J, Panjabi M, Nibu K, Babat L, **Grauer J** , Dvorak J. Head kinematics during in vitro whiplash simulation. *Accident Analysis & Prevention* 1998, 30: 469-479. [PMID: 9666243](#) , [DOI: 10.1016/s0001-4575\(97\)00103-6](#) .
9. Panjabi MM, Cholewicki J, Nibu K, **Grauer JN** , Babat LB, Dvorak J, Bär HF. Biomechanics of whiplash injury. *Die Orthopädie* 1998, 27: 813-819. [PMID: 9894235](#) , [DOI: 10.1007/pl00003468](#) .
10. **Grauer JN** , Erulkar J, Patel T, Panjabi M. Biomechanical evaluation of the New Zealand white rabbit lumbar spine: a physiologic characterization. *European Spine Journal* 2000, 9: 250-255. [PMID: 10905445](#) , [PMCID: PMC3611391](#) , [DOI: 10.1007/s005860000141](#) .
11. **Grauer J** , Patel T, Erulkar J, Troiano N, Panjabi M, Friedlaender G. Evaluation of OP-1 as a Graft Substitute for Intertransverse Process Lumbar Fusion. *Spine* 2001, 26: 127-133. [PMID: 11154530](#) , [DOI: 10.1097/00007632-200101150-00004](#) .
12. Slade J, **Grauer J** , Mahoney J. Arthroscopic Reduction and Percutaneous Fixation of Scaphoid Fractures With a Novel Dorsal Technique. *Orthopedic Clinics Of North America* 2001, 32: 247-261. [PMID: 11331539](#) , [DOI: 10.1016/s0030-5898\(05\)70247-9](#) .
13. Erulkar J, **Grauer J** , Patel T, Panjabi M. Flexibility Analysis of Posterolateral Fusions in a New Zealand White Rabbit Model. *Spine* 2001, 26: 1125-1130. [PMID: 11413423](#) , [DOI: 10.1097/00007632-200105150-00006](#) .
14. Patel T, Erulkar J, **Grauer J** , Troiano N, Panjabi M, Friedlaender G. Osteogenic Protein-1 Overcomes the Inhibitory Effect of Nicotine on Posterolateral Lumbar Fusion. *Spine* 2001, 26: 1656-1661. [PMID: 11474350](#) , [DOI: 10.1097/00007632-200108010-00004](#) .
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17. **Grauer JN** , Vaccaro AR, Beiner JM, Kwon BK, Hilibrand AS, Harrop JS, Anderson G, Hurlbert J, Fehlings MG, Ludwig SC, Hedlund R, Arnold PM, Bono CM, Brodke DS, Dvorak MF, Fischer CG, Sledge JB, Shaffrey CI, Schwartz DG, Sears WR, Dickman C, Sharan A, Albert TJ, Rechtine GR. Similarities and Differences in the Treatment of Spine Trauma Between Surgical Specialties and Location of Practice. Spine 2004, 29: 685-696. [PMID: 15014280](#) , [DOI: 10.1097/01.brs.0000115137.11276.0e](#) .
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19. **Grauer JN** , Bomback DA, Lugo R, Troiano NW, Patel TC, Friedlaender GE. Posterolateral lumbar fusions in athymic rats: characterization of a model. The Spine Journal 2004, 4: 281-286. [PMID: 15125850](#) , [DOI: 10.1016/j.spinee.2003.10.001](#) .
20. **Grauer JN** , Vaccaro AR, Kato M, Kwon BK, Beiner JM, Patel TC, Hilibrand AS, Chiba K, Albert TJ. Development of a New Zealand White Rabbit Model of Spinal Pseudarthrosis Repair and Evaluation of the Potential Role of OP-1 to Overcome Pseudarthrosis. Spine 2004, 29: 1405-1412. [PMID: 15223930](#) , [DOI: 10.1097/01.brs.0000129028.25671.96](#) .
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