

Curriculum Vitae
Ananth S. Eleswarapu, MD

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Academic Appointments

6/2020 – ongoing	Albert Einstein College of Medicine Assistant Professor of Orthopaedic Surgery and Neurosurgery	Bronx, NY
10/2019.- 4/2020	New York University Langone School of Medicine Clinical Assistant Professor of Orthopaedic Surgery	New York, NY
8/2017 – 7/2019	University of Miami Miller School of Medicine Assistant Professor of Orthopaedic Surgery	Miami, FL

Clinical Appointments

2/2024 – ongoing	Montefiore Medical Center Associate Director, Montefiore Spine Center	Bronx, NY
07/2020 – ongoing	Montefiore Medical Center Orthopaedic Spine Surgeon	Bronx, NY
10/2019 – 4/2020	New York University Langone Hospital Orthopaedic Spine Surgeon	New York, NY
10/2017 – 7/2019	University of Miami Hospital Orthopaedic Spine Surgeon	Miami, FL
10/2017 – 7/2019	Jackson Memorial Hospital Orthopaedic Spine Surgeon	Miami, FL

Education

8/2016 – 7/2017	University of California Davis Medical Center Fellowship in Orthopaedic Spine Surgery	Sacramento, CA
6/2011 – 7/2016	University of Chicago Medical Center Residency in Orthopaedic Surgery	Chicago, IL
7/2006 – 6/2011	University of Pittsburgh School of Medicine Doctor of Medicine	Pittsburgh, PA
8/2002 – 6/2006	Columbia University Bachelor of Arts, Economics	New York, NY

Additional Coursework / Certifications

AO North America Faculty Education Program – September 2023 – Online and in-person training course on giving effective presentations, leading small group case review sections and serving as preceptor for surgical training sessions.

Medical Licensure / Board Certification

New York Medical License	4/8/2019 – 8/31/2024
New Jersey Medical License	4/11/2019 – 6/30/2021
Florida Medical License	6/26/2017 – 1/31/2021
California Medical License	12/3/2015 – 9/30/2017
American Board of Orthopaedic Surgery	7/29/2019

Research Fellowships / Grants

12/2023 – 12/2024	Montefiore Einstein Department of Orthopaedic Surgery – Pilot Research Grant <i>Project Title:</i> Development and implementation of a native EMR-based prognostic model for patients undergoing elective lumbar spine surgery
7/2014 – 6/2015	Orthopaedic Research and Education Foundation – Resident Research Project Grant <i>Project Title:</i> Lumbar interbody fusion using synergistic bone morphogenetic proteins <i>Advisor:</i> Rex Haydon, MD/PhD, Department of Orthopaedic Surgery, University of Chicago
7/2009 – 6/2010	Howard Hughes Medical Institute / NIH Research Scholars Program <i>Project Title:</i> Exploration of osteosarcoma metastasis in a murine model <i>Advisor:</i> Chand Khanna, DVM/PhD, National Cancer Institute

Community Service Activities

10/2013 – 12/2015	Bremen and Rich East High Schools – Resident team physician for high school football games
1/2004 – 12/2005	Project Health NY, STRIVE Program – Harlem Hospital, New York, NY – Coordinated a student-run program to provide teenage patients with sickle cell disease education about managing their disease, a network for peer support, and help with schoolwork missed due to hospitalization

Administrative Appointments

9/2023 – ongoing	Member of Montefiore Medical Center Spine Surgery Surgical Site Infection Prevention Taskforce
8/2023 – ongoing	Faculty for Global Spine Diploma Program
8/2023 – ongoing	Montefiore Department of Orthopaedic Surgery pilot research grant review committee
7/2022	Participant in American Board of Orthopaedic Surgery Part I Standard Setting Exercise

6/2022 – ongoing Member of practice management and expanded recognition committees, Montefiore Department of Orthopaedic Surgery

7/2014 – 6/2016 Resident representative the monthly faculty meeting, Department of Orthopaedic Surgery, University of Chicago

Honors and Awards

Undergraduate Scholarships: National Merit Scholar, James E. Casey Memorial Scholarship, Edward J. Bloustein Distinguished Scholar

Research Awards:

1. Best poster presentation, 2017 AO Spine North America Fellows Forum
2. Young Investigator Award, 2022 Western Orthopaedic Association Annual Meeting

Professional Society Memberships

8/2022 – present AO Spine North America (Teaching Faculty)

Editorial Activities

6/2015 Reviewer, *Journal of Medical Economics*

9/2022 - present Reviewer, *The Spine Journal*

5/2023 Reviewer, *BMC Geriatrics*

Peer-Reviewed Publications

1. Akosman I, Kumar N, Mortenson R, Lans A, De La Garza Ramos R, **Eleswarapu A**, Yassari R, Fourman MS. Racial differences in perioperative complications, readmissions, and mortalities after elective spine surgery in the United States: A Systematic Review Using AI-Assisted Bibliometric Analysis. *Global Spine Journal* 2023 June 26.
2. Hui A, Alvandi L, **Eleswarapu A**, Fornari E. Artificial Intelligence in Modern Orthopaedics: Current and Future Applications. *JBJS Reviews* 2022 Oct 3;10(10).
3. Volaski HA, Sharfman ZT, Shah P, **Eleswarapu A**, Geller DS, Krystal J. Do racial disparities exist in a spine surgery practice that serves a predominately minority population? Outcomes of transforaminal lumbar interbody fusion: a retrospective review. *NASS J* 2022 Sep 15;12:100171.
4. Berman D, **Eleswarapu A**, Krystal J, Hoang H. Is the use of intraoperative 3D navigation for thoracolumbar spine surgery a risk factor for post-operative infection? *Journal of Clinical Medicine* 2022 April 10;11(8):2108.
5. **Eleswarapu A**, O'Connor D, Rowan FA, Le H, Wick JB, Javidan Y, Roberto RF, Klineberg EO. Sarcopenia is an independent risk factor for proximal junctional disease following adult spinal deformity surgery. *Global Spine Journal* 2022 Jan;12(1):102-109.
6. **Eleswarapu A**, Rowan FA, Le H, Wick JB, Roberto RF, Javidan Y, Klineberg EO. Efficacy, cost, and complications of demineralized bone matrix in instrumented lumbar fusion: comparison with rhBMP-2. *Global Spine Journal* 2021 Oct;11(8)1223-1229..

7. Fanous AA, Kolcun JPG, Brusco GD, Paci M, Ghobrial GM, Nakhla J, **Eleswarapu A**, Lebowhl NH, Green BA, Gjolaj JP. Surgical site infection as a risk factor for long-term instrumentation failure in patients with spinal deformity: a retrospective cohort study. *World Neurosurgery* 2019 Dec;132:e514-519.
8. Divi SN, **Eleswarapu A**, Stout CE, Lee MJ. Real-world effectiveness of physical therapy for common neck pain diagnoses: a multivariate analysis of 1554 patients. *Clinical Spine Surgery* 2018 Nov;31(9):395-9.
9. Bezci SE, **Eleswarapu A**, Klineberg EO, O'Connell GD. Contribution of facets, axial compression, and composition on human lumbar discs in torsion. *Journal of Orthopedic Research* 2018 *In Press*.
10. **Eleswarapu AS**, Divi SN, Dirschl DR, Mok JM, Stout C, Lee MJ. How effective is physical therapy for common low back pain diagnoses? A multivariate analysis of 4597 patients. *Spine* 2016 Aug 15; 41(16):1325-1329.
11. **Eleswarapu AS**, Yamini B, Bielski RJ. Evaluating the cavus foot. *Pediatric Annals* 2016 Jun 1;45(6):e218-22.
12. **Eleswarapu A**, Salib C, Mikhael M. Radiographic lucency around pedicle screws with cobalt chromium rod constructs in the setting of lumbar fusion. *Medcrave Online Journal of Orthopedics and Rheumatology* 2015 2(4):127-130.
13. **Eleswarapu A**, Mikhael MM, Koh JL. Number of recent inpatient admissions as a risk factor for increased complications, length-of-stay, and cost in patients undergoing posterior lumbar fusion. *Spine* 2014 Dec 15; 39(26):2148-56.
14. Hong SH, Ren L, Mendoza A, **Eleswarapu A**, Khanna C. Apoptosis resistance and PKC signaling: distinguishing features of high and low metastatic cells. *Neoplasia* 2012 March; 14(3):249-58.
15. Mendoza A, Hong SH, Osborne T, Khan MA, Campbell K, Briggs J, **Eleswarapu A**, Buquo L, Ren L, Hewitt SM, Dakir EH, Garfield S, Walker R, Merlino G, Green JE, Hunter KW, Wakefield LM, Khanna C. A novel window to cancer metastasis. *Journal of Clinical Investigation* 2010 August; 120(8):2979-88.
16. Lopez-Candales A, **Eleswarapu A**, Shaver J, Edelman K, Gulyasy B, Candales MD. Right ventricular outflow tract spectral signal: a useful marker of right ventricular systolic performance and pulmonary hypertension severity. *European Journal of Echocardiography* 2010 July; 11(6):509-15.

Conference Poster and Podium Presentations

1. Mostafa E, Hui A, Aasman B, Chowdary K, Mirhaji P, Mardakhaev E, Zampolin R, Blumfield E, Berman J, De La Garza Ramos R, Yassari R, Fourman M, **Eleswarapu A**. Development of a natural language processing algorithm for the detection of spinal metastasis based on MRI reports. Podium presentation at 2023 Clinical Orthopaedic Society Annual Meeting in New Orleans, LA.

2. Mostafa E, Hui A, Aasman B, Chowdary K, Mirhaji P, Mardakhaev E, Zampolin R, Blumfield E, Berman J, De La Garza Ramos R, Yassari R, Fourman M, **Eleswarapu A**. Development of a natural language processing algorithm for the detection of spinal metastasis based on MRI reports. Podium presentation at 2023 Eastern Orthopaedic Association Annual Meeting in Charleston, SC.
3. Mostafa E, Hui A, Aasman B, Chowdary K, Mirhaji P, Mardakhaev E, Zampolin R, Blumfield E, Berman J, De La Garza Ramos R, Yassari R, Fourman M, **Eleswarapu A**. Development of a natural language processing algorithm for the detection of spinal metastasis based on MRI reports. Poster presentation at 2023 Musculoskeletal Tumor Society Annual Meeting in Banff, AB.
4. Hui A, Kim SW, Dziesinski LK, Schwartz R, Alvandi L, **Eleswarapu A**, Fornari ED. Applications of Artificial Intelligence and Machine Learning in Pediatric Orthopaedics. E-poster presentation at 2023 Western Orthopaedic Association Annual Meeting in Coeur d'Alene, ID.
5. Hoang H, Cohen-Feit G, De La Garza R, Fourman M, **Eleswarapu A**. Unsatisfactory outcomes after spine surgery are associated with new-onset depression and substance abuse disorder in the first year after spine surgery. Podium presentation at the 2023 Western Orthopaedic Association Annual Meeting in Coeur d'Alene, ID.
6. Hoang H, Feit G, Chan J, Fourman M, De La Garza R, **Eleswarapu A**. Unsatisfactory outcomes after spine surgery are associated with new-onset depression and substance abuse disorder in the first year after spine surgery. Podium presentation at the 2023 International Society for the Advancement of Spine Surgery Annual Meeting in San Francisco, CA.
7. Mortensen R, Lans A, **Eleswarapu A**, Yassari R, Fourman M. Racial differences in perioperative complications, readmissions and mortalities after elective spine surgery: a systematic review and meta-analysis. E-poster at the 2023 International Society for the Advancement of Spine Surgery Annual Meeting in San Francisco, CA.
8. Mostafa E, Hoang H, Hui A, Berman D, Jeon J, **Eleswarapu A**, Krystal J. Does marijuana usage affect post-operative care in thoracolumbar fusions? A retrospective study in a multiethnic population. E-poster at the 2023 Global Spine Congress in Prague, Czech Republic.
9. Hoang H, Hui A, Tang K, Berman D, Sharfman Z, **Eleswarapu A**, Krystal J. Does English-speaking status affect post-acute care in thoracolumbar fusions? A retrospective study in a multiethnic population. E-poster at the 2023 Global Spine Congress in Prague, Czech Republic.
10. Jeon J, Hui A, Hoang H, Berman D, **Eleswarapu A**, Krystal J. Wound closure done by spine surgeons vs plastic surgeons in varying levels of vertebral fusion. E-poster at the 2023 Global Spine Congress in Prague, Czech Republic.
11. Hoang H, Berman D, **Eleswarapu A**, Krystal J. Intraoperative 3D navigation and post-operative infection in thoracolumbar fusion. Poster presentation at 2023 AAOS Annual Meeting, Las Vegas, NV.
12. Hoang H, Berman D, **Eleswarapu A**, Krystal J. Intraoperative 3D navigation and post-operative infection in thoracolumbar fusion. Selected for a podium presentation at the 2022 Western Orthopaedic Association Annual Meeting in Maui, HI. *

*Winner of 2022 WOA/OREF Young Investigator Award

13. **Eleswarapu A**, Rowan FA, Roberto RF, Javidan Y, Klineberg EO. Sarcopenia is associated with proximal junctional disease following adult deformity surgery. Podium presentation at 2017 North American Spine Society annual meeting in Orlando, FL, October 2017.
14. Klineberg EO, Roberto RF, Gupta MC, Rowan FA, **Eleswarapu A**, Javidan Y. Efficacy and cost of a novel DBM compared to rh-BMP-2 in instrumented lumbar spine fusion. Poster presentation at 2017 North American Spine Society annual meeting in Orlando, FL, October 2017.
15. **Eleswarapu AS**, Divi SN, Shi LL, Dirschl DR, Mok JM, Stout C, Lee MJ. Is physical therapy beneficial after lumbar spine surgery? A multivariate analysis of 1130 patients. Rapid fire presentation at 2017 Lumbar Spine Research Society Meeting in Chicago, IL, April 2017.
16. **Eleswarapu A**, Rowan R, Roberto R, Javidan Y, Klineberg E. Sarcopenia is associated with proximal junctional disease following adult spinal deformity surgery. Poster presentation at 2017 AO Spine Fellows Forum in Banff, AB, March 2017.
17. **Eleswarapu AS**, Divi SN, Dirschl DR, Mok JM, Stout C, Lee MJ. How effective is physical therapy for low back pain? A multivariate analysis of 4597 patients. Podium presentation at 2016 Lumbar Spine Research Society Annual Meeting in Chicago, IL, April 2016.
18. **Eleswarapu A**, Mikhael MM, Koh JL. Prior admissions are the most important predictor of risk in posterior lumbar fusion. Podium presentation at 2015 AAOS Annual Meeting in Las Vegas, NV, March 2015.
19. **Eleswarapu A.**, Hong S.H., Mendoza A., Khanna C. Modeling the kinetics of metastatic progression. Poster presented at AACR 101st Annual Meeting in Washington DC, April 2010.
20. Lopez-Candales A., **Eleswarapu A.**, Edelman, K. Right ventricular diastolic function in pulmonary hypertension. Poster presented at AHA 2008 Scientific Sessions in New Orleans, LA, November 2008.

Book Chapters and Invited Manuscripts

1. Rowan FA, **Eleswarapu AS**, Klineberg EO. “Medical Complications”. In: Cervical Spine Deformity Surgery (eds. Ames et al), 2019.
2. **Eleswarapu AS** and Lee MJ. Complications in the Surgical Treatment of Lumbar Spinal Stenosis. Seminars in Spine Surgery 2019.

Print/Broadcast Media

“Back pain in children: warning signs to watch out for.” Published in the Miami Herald, August 31, 2018

Meeting / Course Faculty

Co-chair for Montefiore Primary Care Orthopedic Course, 1/19/2024.

Member of Awards Committee for 2024 OneAO Conference

Steering Chair for Artificial Intelligence in Musculoskeletal Care Subsection, 12th Annual Arnold and Marie Penner Musculoskeletal Repair and Regeneration Symposium, Albert Einstein College of Medicine, 10/25/2023.

Panel member for South Asian Medical Students Association Physician Panel, Albert Einstein College of Medicine, 10/4/2023

Member of Program Committee for 2023 AO Global Spine Congress

“Making the Leap from Fellowship to Practice.” Presented at 2020 AO Spine North America Fellows Kickoff Webinar, September 2020.

“The Art is Long: Practical Tips for Surviving Your First Year in Practice.” Presented at 2018 AO Spine North America Fellows Forum, March 2018.

Faculty Judge, 2018 and 2019 Eastern Student Research Forum, Miami, FL

“Innovations in Spine Surgery.” Presented at annual meeting of National Association of Orthopaedic Nurses, Sacramento Chapter, November 19, 2016

Teaching Activities

“Predictive Analytics and the Coming Revolution in Spine Surgery.” Presented for Montefiore neurosurgery residency weekly didactics – March 25, 2022

Faculty for musculoskeletal section of Introduction to Clinical Medicine Course, Albert Einstein College of Medicine – 2021-2023

Grand Rounds Presentations

“The Robot Will See You Now: What Artificial Intelligence Means for Patients and the Humans that Care for Them.” Presented at White Plains Hospital Orthopaedic Surgery Grand Rounds, December 12, 2023.

“Predictive Analytics and the Coming Revolution in Spine Surgery” Presented at Montefiore Medical Center / Albert Einstein College of Medicine Orthopedic Surgery Grand Rounds, March 17, 2022.

“Revision Spine Surgery: Diagnosis and Surgical Strategies.” Presented at Montefiore Spine Center Interdisciplinary Conference, November 10, 2020.

“Sarcopenia as a Risk Factor for Junctional Failure Following Spine Surgery.” Presented at Montefiore Medical Center / Albert Einstein College of Medicine Orthopedic Surgery Grand Rounds, September 25, 2020.

“Pediatric Spinal Deformity – Let’s Get the Facts Straight!” Presented at University of Miami Department of Pediatrics Grand Rounds, September 4, 2018

“Preventing Junctional Failure Following Spinal Deformity Surgery.” Presented at University of Miami Department of Orthopaedic Surgery Grand Rounds, October 19, 2017

“Strategies for the Prevention of Proximal Junctional Kyphosis.” Presented at UC Davis Department of Orthopaedic Surgery Grand Rounds, January 31, 2017

Personal Information

Hometown: East Brunswick, NJ

Spouse: Tina Bhardwaj

Interests: Travel, basketball, reading