



Kunal Varshneya

MD Student with Scholarly Concentration in Clinical Research, expected graduation Spring 2026

Bio

BIO

Medical student interested in orthopedic surgery and big data analytics.

Publications

PUBLICATIONS

- **Imageless Computer Navigation Reduces 5-Year All-Cause Revision Rates After Primary Total Knee Arthroplasty.** *The Journal of arthroplasty*
Varshneya, K., Hong, C. S., Tyagi, V., Ruberte Thiele, R. A., Huddleston, J. I.
2022
- **The impact of osteoporosis on adult deformity surgery outcomes in Medicare patients.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*
Varshneya, K., Bhattacharjya, A., Jokhai, R. T., Fatemi, P., Medress, Z. A., Stienen, M. N., Ho, A. L., Ratliff, J. K., Veeravagu, A.
2021
- **Concomitant Osteotomy Reduces Risk of Reoperation Following Cartilage Restoration Procedures of the Knee: A Matched Cohort Analysis.** *Cartilage*
Calcei, J. G., Varshneya, K., Sochacki, K. R., Safran, M. R., Abrams, G. D., Sherman, S. L.
2021: 19476035211011515
- **Factors which predict adverse events following surgery in adults with cervical spinal deformity** *BONE & JOINT JOURNAL*
Varshneya, K., Jokhai, R., Medress, Z. A., Stienen, M. N., Ho, A., Fatemi, P., Ratliff, J. K., Veeravagu, A.
2021; 103B (4): 734–38
- **Risk Factors for Revision Surgery After Primary Adult Thoracolumbar Deformity Surgery.** *Clinical spine surgery*
Varshneya, K., Stienen, M. N., Medress, Z. A., Fatemi, P., Pendharkar, A. V., Ratliff, J. K., Veeravagu, A.
2021
- **Comparison of Autologous Chondrocyte Implantation and Osteochondral Allograft Transplantation of the Knee in a Large Insurance Database: Reoperation Rate, Complications, and Cost Analysis.** *Cartilage*
Sochacki, K. R., Varshneya, K., Calcei, J. G., Safran, M. R., Abrams, G. D., Donahue, J., Chu, C., Sherman, S. L.
2020: 1947603520967065
- **Costs, Complications, and Reoperations Associated With Primary Arthroscopic Rotator Cuff Repair With or Without Acromioplasty and/or Biceps Tenodesis.** *Arthroscopy, sports medicine, and rehabilitation*
Varshneya, K., Safran, M. R., Sherman, S. L., Abrams, G. D.
2020; 2 (4): e369–e376
- **A Comparative Analysis of Patients Undergoing Fusion for Adult Cervical Deformity by Approach Type** *GLOBAL SPINE JOURNAL*
Varshneya, K., Medress, Z. A., Stienen, M. N., Nathan, J., Ho, A., Pendharkar, A. V., Loo, S., Aikin, J., Li, G., Desai, A., Ratliff, J. K., Veeravagu, A.
2020

- **Risk of Subsequent Knee Arthroplasty After Sports Medicine Procedures.** *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*
Enweze, L. C., Varshneya, K. n., Sherman, S. L., Safran, M. R., Abrams, G. D.
2020; 4 (8): e2000125
- **Complications, Costs, and Quality Outcomes of Patients Undergoing Cervical Deformity Surgery with Intraoperative BMP Use.** *Spine*
Varshneya, K. n., Wadhwa, H. n., Pendharkar, A. V., Medress, Z. A., Stienen, M. N., Ratliff, J. K., Veeravagu, A. n.
2020
- **Patterns of Opioid and Benzodiazepine Use in Opioid-Naive Patients with Newly Diagnosed Low Back and Lower Extremity Pain.** *Journal of general internal medicine*
Azad, T. D., Zhang, Y., Stienen, M. N., Vail, D., Bentley, J. P., Ho, A. L., Fatemi, P., Herrick, D., Kim, L. H., Feng, A., Varshneya, K., Jin, M., Veeravagu, et al
2019
- **Age-Adjusted Normative Values for Hip Patient-Reported Outcome Measures.** *The American journal of sports medicine*
Sharfman, Z. T., Safran, N., Amar, E., Varshneya, K., Safran, M. R., Rath, E.
2021: 3635465211056666
- **Do Epidural Steroid Injections Affect Outcomes and Costs in Cervical Degenerative Disease? A Retrospective MarketScan Database Analysis.** *Global spine journal*
Wadhwa, H., Varshneya, K., Stienen, M. N., Veeravagu, A.
2021: 21925682211050320
- **Outcome Measures of Medicare Patients With Diabetes Mellitus Undergoing Thoracolumbar Deformity Surgery.** *Clinical spine surgery*
Varshneya, K., Bhattacharjya, A., Sharma, J., Stienen, M. N., Medress, Z. A., Ratliff, J. K., Veeravagu, A.
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Varshneya, K., Wadhwa, H., Ho, A. L., Medress, Z. A., Stienen, M. N., Desai, A., Ratliff, J. K., Veeravagu, A.
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- **Factors which predict adverse events following surgery in adults with cervical spinal deformity.** *The bone & joint journal*
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Varshneya, K., Wadhwa, H., Stienen, M. N., Ho, A. L., Medress, Z. A., Herrick, D. B., Desai, A., Ratliff, J. K., Veeravagu, A.
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- **Anterior Cervical Discectomy and Fusion vs. Laminoplasty for Multilevel Cervical Spondylotic Myelopathy: A National Administrative Database Analysis.** *World neurosurgery*
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Medress, Z. A., Jin, M. C., Feng, A., Varshneya, K., Veeravagu, A.
2020; 49 (5): E16
- **Three-dimensional aneurysm volume measurements show no correlation between coil packing density and recurrence.** *Heliyon*
Thaci, B., Nuno, M., Varshneya, K., Gerndt, C. H., Kercher, M., Dahlin, B. C., Waldau, B.
2020; 6 (10): e05170
- **Predictors of 2-year reoperation in Medicare patients undergoing primary thoracolumbar deformity surgery.** *Journal of neurosurgery. Spine*
Varshneya, K., Jokhai, R. T., Fatemi, P., Stienen, M. N., Medress, Z. A., Ho, A. L., Ratliff, J. K., Veeravagu, A.
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- **A Comparative Analysis of Patients Undergoing Fusion for Adult Cervical Deformity by Approach Type.** *Global spine journal*
Varshneya, K., Medress, Z. A., Stienen, M. N., Nathan, J., Ho, A., Pendharkar, A. V., Loo, S., Aikin, J., Li, G., Desai, A., Ratliff, J. K., Veeravagu, A.
2020: 2192568220915717
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Varshneya, K., Pangal, D. J., Stienen, M. N., Ho, A. L., Fatemi, P., Medress, Z. A., Herrick, D. B., Desai, A., Ratliff, J. K., Veeravagu, A.
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2020
- **Lumboperitoneal and Ventriculoperitoneal Shunting for Idiopathic Intracranial Hypertension Demonstrate Comparable Failure and Complication Rates** *NEUROSURGERY*
Azad, T. D., Zhang, Y., Varshneya, K., Veeravagu, A., Ratliff, J. K., Li, G.
2020; 86 (2): 272–80
- **Single- versus dual-attending strategy for spinal deformity surgery: 2-year experience and systematic review of the literature.** *Journal of neurosurgery. Spine*
Cheng, I. n., Stienen, M. N., Medress, Z. A., Varshneya, K. n., Ho, A. L., Ratliff, J. K., Veeravagu, A. n.
2020: 1–12
- **Adult Spinal Deformity Surgery in Patients With Movement Disorders: A Propensity-matched Analysis of Outcomes and Cost.** *Spine*
Varshneya, K. n., Azad, T. D., Pendharkar, A. V., Desai, A. n., Cheng, I. n., Karikari, I. n., Ratliff, J. K., Veeravagu, A. n.
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Varshneya, K. n., Stienen, M. N., Ho, A. L., Medress, Z. A., Fatemi, P. n., Pendharkar, A. V., Ratliff, J. K., Veeravagu, A. n.
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Sochacki, K. R., Shea, K. G., Varshneya, K. n., Safran, M. R., Abrams, G. D., Donahue, J. n., Sherman, S. L.
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- **Comparing Meniscectomy and Meniscal Repair: A Matched Cohort Analysis Utilizing a National Insurance Database.** *The American journal of sports medicine*
Sochacki, K. R., Varshneya, K. n., Calcei, J. G., Safran, M. R., Abrams, G. D., Donahue, J. n., Sherman, S. L.
2020: 363546520935453
- **Reoperation Rates following Meniscus Transplantation using the Truven Database.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
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2020
- **Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease.** *Global spine journal*
Azad, T. D., Varshneya, K., Herrick, D. B., Pendharkar, A. V., Ho, A. L., Stienen, M., Zygorakis, C., Bagshaw, H. P., Veeravagu, A., Ratliff, J. K., Desai, A.
2019: 2192568219889363
- **Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease** *GLOBAL SPINE JOURNAL*
Azad, T. D., Varshneya, K., Herrick, D. B., Pendharkar, A., Ho, A. L., Stienen, M., Zygorakis, C., Bagshaw, H. P., Veeravagu, A., Ratliff, J. K., Desai, A.
2019
- **Risks, costs, and outcomes of cerebrospinal fluid leaks after pediatric skull fractures: a MarketScan analysis between 2007 and 2015** *NEUROSURGICAL FOCUS*

Varshneya, K., Rodrigues, A. J., Medress, Z. A., Stienen, M. N., Grant, G. A., Ratliff, J. K., Veeravagu, A.

2019; 47 (5): E10

- **Trends in Anterior Lumbar Interbody Fusion in the United States: A MarketScan Study From 2007 to 2014.** *Clinical spine surgery*
Varshneya, K., Medress, Z. A., Jensen, M., Azad, T. D., Rodrigues, A., Stienen, M. N., Desai, A., Ratliff, J. K., Veeravagu, A.
2019
- **A Descriptive Analysis of Spinal Cord Arteriovenous Malformations: Clinical Features, Outcomes, and Trends in Management.** *World neurosurgery*
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- **Laminectomy versus Corpectomy for Spinal Metastatic Disease-Complications, Costs, and Quality Outcomes.** *World neurosurgery*
Azad, T. D., Varshneya, K., Ho, A. L., Veeravagu, A., Sciubba, D. M., Ratliff, J. K.
2019
- **Grade II Spondylolisthesis: Reverse Bohlman Procedure with Trans-Discal S1-L5 and S2Ai Screws Placed with Robotic Guidance.** *World neurosurgery*
Ho, A. L., Varshneya, K., Medress, Z. A., Pendharkar, A. V., Sussman, E. S., Cheng, I., Veeravagu, A.
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Hribar, K. C., Wheeler, C. J., Bazarov, A., Varshneya, K., Yamada, R., Buckley, P., Patil, C. G.
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- **Expenditures and Health Care Utilization Among Adults With Newly Diagnosed Low Back and Lower Extremity Pain.** *JAMA network open*
Kim, L. H., Vail, D. n., Azad, T. D., Bentley, J. P., Zhang, Y. n., Ho, A. L., Fatemi, P. n., Feng, A. n., Varshneya, K. n., Desai, M. n., Veeravagu, A. n., Ratliff, J. K.
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2019
- **A national perspective of adult gangliogliomas** *JOURNAL OF CLINICAL NEUROSCIENCE*
Varshneya, K., Sarmiento, J., Nuno, M., Lagman, C., Mukherjee, D., Nuno, K., Babu, H., Patil, C. G.
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- **Treatment and survival of supratentorial and posterior fossa ependymomas in adults** *JOURNAL OF CLINICAL NEUROSCIENCE*
Nuno, M., Yu, J. J., Varshneya, K., Alexander, J., Mukherjee, D., Black, K. L., Patil, C. G.
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- **A Report on the Health and Literacy Attributes of Naga Valadia, A Rural Village in India.** *International Journal of Current Research*
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- **Outcomes and factors associated with infant abusive head trauma in the US** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
Nuno, M., Pelissier, L., Varshneya, K., Adamo, M. A., Drazin, D.
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- **A clinical review of the efficacy of persistent hypoglycemia and ketogenic diet as an adjuvant therapy for high-grade gliomas.** *Cureus Journal of Medical Science*
Varshneya, K., Carico, C., Ortega, A., Patil, C. G.
2015
- **Just too many things to remember? A survey of paediatric trainees' recall of Advanced Paediatric Life Support (APLS) weight estimation formulae.** *Archives of disease in childhood*
Marikar, D., Varshneya, K., Wahid, A., Apakama, O.
2013; 98 (11): 921