



## Zahra Shokri Varniab

Postdoctoral Scholar, Radiology

### Bio

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#### BIO

Zahra Shokri Varniab, MD, studied medicine at Tehran University of Medicine Sciences, Iran, and earned her medical degree in 2021. Her goal in novel cellular and molecular imaging is to develop novel in vivo imaging approaches to visualize, characterize and quantify molecular and cellular processes involved in developing brain tumors. She intends to utilize non-invasive imaging techniques to assess tumor microenvironment to understand their role in cancer, develop a method for determining tumor profiles, and also using brain MR Imaging to assess treatment response. She hopes cancer to be history.

#### HONORS AND AWARDS

- Recognized Reviewer, Academic Radiology (2025)
- Trusted Peer Reviewer/Springer Nature Reviewer Community, Springer Nature (2025)
- Stanford Postdoc JEDI Champion Award, Stanford Postdoc Champions: Community Impact Award (2025)
- Awarded for second place presenter, Young Investigator Symposium of the Northern California (2024)
- Stanford Bio-X travel award for RSNA 2024 oral presentation, Stanford Bio-X (2024)
- Ranked top 0.01% of Iran's National University Entrance Examination, Iran (2011-2012)
- Awarded of the first prize of Iranian Book Festival of the Year, Iran (2018)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member-in-Training, Society of Abdominal Imaging (SABI) (2024 - present)
- Member-in-Training, American Society of Neuroradiology (ASNR) (2024 - present)
- Member-in-Training, Radiological Society of North America (RSNA) (2021 - present)
- Member-in-Training, American Society of Pediatric Neuroradiology (ASPNR) (2023 - present)
- Social Media Superusers committee, American College of Radiology (2025 - present)

#### PROFESSIONAL EDUCATION

- Doctor of Medicine, Tehran University of Medical Sciences (2021)
- Postdoctoral Research Scholar, Stanford University (2022)
- Postdoctoral Research Assistant, Tehran University of Medical Sciences (2020)
- Doctor of Medicine, Tehran University of Medical Sciences (2020)

## LINKS

- Twitter: <https://twitter.com/ZahraShokriV>
- Google Scholar: <https://scholar.google.com/citations?user=aV5XoWYAAAAJ&hl=en&oi=ao>

## Publications

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### PUBLICATIONS

- **Deep learning for accurate tumour volume measurement and prediction of therapy response in paediatric osteosarcoma.** *European radiology*  
von Krüchten, R., Barrow, M., Adams, L., Singh, S. B., Varniab, Z. S., Suryadevara, V., Ghimire, P., Pribnow, A., Qi, J., Applin, D., Loksha, Y. U., Nernekli, K., Daldrup-Link, et al  
2025
- **Apparent diffusion coefficient can assist in differentiating between benign and malignant primary bone tumors in pediatric patients.** *Skeletal radiology*  
Loksha, Y. U., Singh, S. B., von Krüchten, R., Varniab, Z. S., Kumar, M., Suryadevara, V., Sarrami, A. H., Liang, T., Wong, J., Pribnow, A., Daldrup-Link, H. E.  
2025
- **MRI detection of senescent cells in porcine knee joints with a  $\beta$ -galactosidase responsive Gd-chelate.** *Npj imaging*  
Nernekli, K., Mangarova, D. B., Suryadevara, V., Hajipour, M., Tang, J. H., Wang, J., Liang, T., Harris, M., Ueyama, T., Lyons, J. K., Moseley, M. E., Roudi, R., Pisani, et al  
2025; 3 (1): 18
- **Dual-enzyme activated theranostic nanoparticles for image-guided glioblastoma therapy.** *Scientific reports*  
Shokri Varniab, Z., Chang, E., Wang, J., Duwa, R., Suryadevara, V., Wu, W., Kumar, M., Liang, T., Khatoon, Z., Morais, G. R., Falconer, R., Shi, Y., Tikhomirov, et al  
2025; 15 (1): 13540
- **Multimodal imaging approach to track theranostic nanoparticle accumulation in glioblastoma with magnetic resonance imaging and intravital microscopy.** *Nanoscale*  
Saladino, G. M., Mangarova, D. B., Nernekli, K., Wang, J., Annio, G., Varniab, Z. S., Khatoon, Z., Ribeiro Morais, G., Shi, Y., Chang, E., Pisani, L. J., Tikhomirov, G., Falconer, et al  
2025
- **Brain MRI changes in children and young adults with B-cell acute lymphoblastic leukemia following chimeric antigen receptor T-cell therapy.** *European radiology*  
Kim, H. G., Yeom, K. W., Vasylyv, I., Shokri Varniab, Z., Erickson, C., Baggott, C., Schultz, L. M., Daldrup-Link, H. E.  
2025
- **Age of tobacco smoking initiation among Iranian adults based on National and Subnational data from the 2021 STEPS survey** *SCIENTIFIC REPORTS*  
Langroudi, A., Farzi, Y., Almasi, G., Varniab, Z., Abbasi-Kangevari, M., Rezaei, N., Golestani, A., Ahmadi, N., Rezaei, N., Ghasemi, E., Azadnajafabad, S., Nasserinejad, M., Rashidi, et al  
2025; 15 (1)
- **Two-Photon Intravital Microscopy of Glioblastoma in a Murine Model.** *Journal of visualized experiments : JoVE*  
Nernekli, K., Mangarova, D. B., Shi, Y., Varniab, Z. S., Chang, E., Tikenogullari, O. Z., Pisani, L., Tikhomirov, G., Wang, G., Daldrup-Link, H. E.  
2024
- **Triglyceride-glucose index and obstructive sleep apnea: a systematic review and meta-analysis.** *Lipids in health and disease*  
Behnoush, A. H., Khalaji, A., Ghondagsaz, E., Masrour, M., Shokri Varniab, Z., Khalaji, S., Cannavo, A.  
2024; 23 (1): 4
- **Exploring metabolically healthy obesity: prevalence, characteristics, and cardiovascular risk in the Iranian population based on the STEPS 2021** *JOURNAL OF DIABETES AND METABOLIC DISORDERS*  
Langroudi, A., Farzi, Y., Masinaei, M., Varniab, Z., Shahin, S., Rashidi, M., Moghaddam, S., Rahimi, S., Khalili, M., Keykhaei, M., Ahmadi, N., Kazemi, A., Ghasemi, et al

2023

- **The levels and trends of cancer incidence in the elderly population at national and sub-national scales in Iran from 1990 to 2016** *CANCER REPORTS*  
Varniab, Z., Moghaddam, S., Langroudi, A., Azadnajafabad, S., Mortazavi, S., Sheidaei, A., Gohari, K., Farzi, Y., Moghaddam, Z., Sohrabi, H., Shati, M.  
2023: e1937
- **The national trend of the burden of Chronic Kidney Disease (CKD) in Iran from 1990 to 2019.** *Journal of diabetes and metabolic disorders*  
Khashayar, P., Sharifnejad Tehrani, Y., Tabatabaei-Malazy, O., Khashayar, P., Saeedi Moghaddam, S., Shobeiri, P., Golestani, A., Esfahani, Z., Shokri Varniab, Z., Nasserinejad, M., Pourabhari Langroudi, A., Dilmaghani-Marand, A., Kazemi, et al  
2023; 22 (2): 1657-1671
- **Urinary and circulatory netrin-1 as biomarker in diabetes and its related complications: a systematic review and meta-analysis.** *Endocrine*  
Behnoush, A. H., Khalaji, A., Shokri Varniab, Z., Rahbarghazi, A., Amini, E., Klisic, A.  
2023
- **Composite lipid indices in patients with obstructive sleep apnea: a systematic review and meta-analysis.** *Lipids in health and disease*  
Behnoush, A. H., Bahiraie, P., Shokri Varniab, Z., Foroutani, L., Khalaji, A.  
2023; 22 (1): 84
- **Effect of air pollution on disease burden, mortality, and life expectancy in North Africa and the Middle East: a systematic analysis for the Global Burden of Disease Study 2019.** *The Lancet. Planetary health*  
Abbasi-Kangevari, M., Malekpour, M. R., Masinaei, M., Moghaddam, S. S., Ghamari, S. H., Abbasi-Kangevari, Z., Rezaei, N., Rezaei, N., Mokdad, A. H., Naghavi, M., Larijani, B., Farzadfar, F., Murray, et al  
2023; 7 (5): e358-e369
- **Effect of air pollution on disease burden, mortality, and life expectancy in North Africa and the Middle East: a systematic analysis for the Global Burden of Disease Study 2019** *LANCET PLANETARY HEALTH*  
Abbasi-Kangevari, M., Malekpour, M., Masinaei, M., Moghaddam, S., Ghamari, S., Abbasi-Kangevari, Z., Rezaei, N., Rezaei, N., Mokdad, A. H., Naghavi, M., Larijani, B., Farzadfar, F., Murray, et al  
2023; 7 (5): E358-E369
- **A novel endoscopic approach for management of hutch diverticulum concomitant vesicoureteral reflux with dextranomer/hyaluronic acid copolymer injection.** *Journal of pediatric urology*  
Pourabhari Langroudi, A., Shokri Varniab, Z., Nabavizadeh, B., Neishabouri, A., Kajbafzadeh, A. M.  
2023
- **Burden of tracheal, bronchus, and lung cancer in North Africa and Middle East countries, 1990 to 2019: Results from the GBD study 2019** *FRONTIERS IN ONCOLOGY*  
Khanmohammadi, S., Moghaddam, S., Azadnajafabad, S., Rezaei, N., Esfahani, Z., Rezaei, N., Naghavi, M., Larijani, B., Farzadfar, F., Gbd 2019 Name Tracheal Bronchus  
2023; 12: 1098218
- **Endocan in prediabetes, diabetes, and diabetes-related complications: a systematic review and meta-analysis.** *Diabetol Metab Syndr*  
Khalaji, A., Behnoush, A., Saeedian, B., Khanmohammadi, S., Shokri Varniab, Z., Peiman, S.  
2023
- **Abdominal Imaging Findings in Patients with COVID-19 Part 2: Solid Organs** *Middle East Journal of Digestive Diseases*  
Shokri Varniab, Z., Pourabhari Langroudi, A., Amouei, M., Pak, N., Khosravi, B., Radmard, A.  
2023
- **Global and regional quality of care index (QCI) by gender and age in oesophageal cancer: A systematic analysis of the Global Burden of Disease Study 1990-2019.** *PLoS one*  
Iezadi, S., Ebrahimi, N., Ghamari, S., Esfahani, Z., Rezaei, N., Ghasemi, E., Moghaddam, S. S., Azadnajafabad, S., Abdi, Z., Varniab, Z. S., Golestani, A., Langroudi, A. P., Dilmaghani-Marand, et al  
2023; 18 (10): e0292348
- **Burden of autism spectrum disorders in North Africa and Middle East from 1990 to 2019: A systematic analysis for the Global Burden of Disease Study 2019** *Brain Behavior*  
Ebrahimi Meimand, S.  
2023

- **Regional and national burden of leukemia and its attributable burden to risk factors in 21 countries and territories of North Africa and Middle East, 1990-2019: results from the GBD study 2019.** *Journal of cancer research and clinical oncology*  
Heidari-Faroozan, M., Saeedi Moghaddam, S., Keykhaei, M., Shobeiri, P., Azadnajafabad, S., Esfahani, Z., Rezaei, N., Nasserinejad, M., Rezaei, N., Rayzan, E., Shokri Varniab, Z., Golestani, A., Haghshenas, et al  
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- **Estimates of incidence, prevalence, mortality, and disability-adjusted life years of lung cancer in Iran, 1990-2019: A systematic analysis from the global burden of disease study 2019** *CANCER MEDICINE*  
Varniab, Z., Tehrani, Y., Langroudi, A., Azadnajafabad, S., Rezaei, N., Rashidi, M., Esfahani, Z., Malekpour, M., Ghasemi, E., Ghamari, A., Dilmaghani-Marand, A., Fateh, S., Shabestari, et al  
2022
- **Meatal stenosis following three types of circumcision with frenular artery preservation (FAP), the Plastibell device (PD), and frenular artery ligation (FAL): a long-term follow-up** *IRISH JOURNAL OF MEDICAL SCIENCE*  
Varniab, Z., Langroudi, A., Neishabouri, A., Torabinaid, P., Arbab, M., Heidari, F., Milani, S., Eftekhazadeh, S., Sabetkish, S., Kajbafzadeh, A.  
2022
- **Findings of Abdominal Imaging in Patients with COVID-19 Part 1: Hollow Organs** *Middle East Journal of Digestive Diseases*  
Pourabhari Langroudi, A., Shokri Varniab, Z., Amouei, M., Pak, N., Khosravi, B., Mirsharifi, A., Radmard, A.  
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