**CURRICULUM VITAE**

**University of Alabama at Birmingham**

**School of Medicine Faculty**

**Date:**  **Aug, 2024**

**PERSONAL INFORMATION:**

Name: **Houman Sotoudeh, M.D.**

Citizenship: United States of America

Foreign Language(s): Persian

Home Address: 1114 Eagle Nest Cir

Birmingham, AL 35242

Phone: (314) 625-0609

**RANK/TITLE: Associate Professor of Radiology**

Department: UTSouthwestern Department of Radiology

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Phone: 214-648-3111

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**HOSPITAL AND OTHER (NON ACADEMIC) APPOINTMENTS:**

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| --- | --- |
| 2024-Present 2017-2024 | UTSouthwestern Medical center, Dallas, TX  UAB School of Medicine, Birmingham AL |
| 2017-2024 | Callahan Eye foundation, Birmingham, AL |
| 2016-2017 | Zwanger-Pesiri Radiology, Long Island, NY |

**PROFESSIONAL CONSULTANTSHIPS:**

**EDUCATION**:

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| **Year** | **Degree** | **Institution** |
| 2004 | M.D. | Tehran University of Medical Sciences  Tehran, Iran |

**MILITARY SERVICE**:

N/A

**LICENSURE**:

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| Alabama | 36307 |  |

**BOARD CERTIFICATION**:

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| 2019 | Subspecialty Exam in Neuroradiology (CAQ) |
| 2016 | American Board of Radiology |
| 2015 | American Board of Nuclear Medicine |
| 2013 | European Diploma in Radiology (EDiR); Diplomat |
| 2008 | Iranian National Board of Radiology; First Rank |

**POSTDOCTORAL TRAINING**:

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| **Year** | **Program** | **Institution** |
| 2015-2016 | Fellow of Pediatric Radiology | Washington University, Mallinckrodt Institute of Radiology  St. Louis, MO |
| 2013-2015 | Fellow of Nuclear Medicine | Washington University, Mallinckrodt Institute of Radiology  St. Louis, MO San Francisco, CA |
| 2012-2013 | Fellow of Neuroradiology | Washington University, Mallinckrodt Institute of Radiology  St. Louis, MO |
| 2010-2011 | Visiting Fellow Abdominal Imaging (4 months of educational vacation, while being Assistant Professor at Arak University of Medical Sciences) | Massachusetts General Hospital,  Harvard University, Boston, MA |
| 2010 | Visiting Fellow Neuroradiology  fMRI (2 months of educational vacation, while being Assistant Professor at Arak University of Medical Sciences) | Gent University  Gent, Belgium |
| 2004-2008 | Radiology Residency | Tehran University, Tehran University of Medical Sciences,  Tehran, Iran |
| 2002-2004 | Internship | Tehran University, Tehran University of Medical Sciences,  Tehran, Iran |

**ACADEMIC APPOINTMENTS**:

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| **Year**  20124-Present | **Rank/Title**  Associate Professor of Radiology | **Institution**  UTSouthwestern , Dallas, TX |
| 2022-2024 | Associate Professor of Radiology | UAB School of Medicine,  Birmingham, AL |
| 2022-2024 | Associate Professor of Neurology | UAB School of Medicine,  Birmingham, AL |
| 2022-2024 | Associated Scientist | Center for Clinical and Translational Science (CCTS),  Birmingham, AL |
| 2022-2024 | Associated Scientist | O’Neal Cancer Center, UAB School of Medicine,  Birmingham, AL |
| 2021-2024 | Director of Clinical Research, Neuroradiology | UAB School of Medicine,  Birmingham, AL |
| 2018-2022 | Assistant Professor of Neurology | UAB School of Medicine  Birmingham, AL |
| 2017-2022 | Assistant Professor of Radiology | UAB School of Medicine  Birmingham, AL |
| 2008-2012 | Assistant Professor of Radiology | Arak University of Medical Sciences,  Arak, Iran |

**AWARDS/HONORS:**

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| **Awards/Honors**  2024  2024  2024 | Best of AJR 2024; Prospective Evaluation of Artificial Intelligence Triage of Intracranial Hemorrhage on Noncontrast Head CT Examinations  Resident education award, Department of Radiology, UAB  Winner the best Clinical Paper Award, Department of Radiology, UAB |
| 2022 | Winner of Best Junior Faculty Scholar Award, Department of Radiology, UAB |
| 2021 | Winner of ENRICH Innovation Category Poster Presentation at UAB |
| 2020 | Neuroradiology fellowship teaching award, UAB |
| 2020 | Radiology Residency Top 10 teaching award, UAB |
| 2011 | Candidate for the best training article in RSNA (Nov 2011) for “Pancreatic imagining findings in Tuberous sclerosis” research |
| 2009 | European congress of radiology travel bursary award |

**PROFESSIONAL SOCIETIES:**

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| --- | --- |
| 2018-Present | American Society of Neuroradiology (ASNR) |
| 2011-Present | American College of Radiology (ACR) |
| 2010-Present | Radiology Society of North America (RSNA) |
| 2009-Present | European Society of Radiology (ESR) |
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**UNIVERSITY ACTIVITIES:**

**Department of Radiology**

2024- 2024 UAB APT Committee

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| 2021-2024 | Chair of UAB Radiology Data and Safety Monitoring Board (DSMB) |
| 2021-2024 | Chair of UAB Neuroradiology Peer Review Program |
| 2021-2024 | UAB Radiology Software Workgroup |
| 2020-2024 | UAB Radiology Hanging Protocol Group |
| 2018-2024 | UAB Radiology Clinical Research Committee |
| 2018-2024 | UAB Radiology Artificial Intelligence Committee |
| 2018-2024 | UAB Radiology Structural Report Committee |
| 2017-2024 | UAB Neuroradiology Fellowship Selection Committee |
| 2017-2024 | UAB Neuroradiology Fellowship Clinical Competency Committee |
| 2017-2024 | UAB Neuroradiology Fellowship Program Evaluation Committee |

**EDITORIAL BOARD MEMBERSHIPS:**

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| 2020-Current | International Journal of Imaging Systems and Technology (IMA) |
| 2019-Current | International Journal of Biotechnology and Biomaterials Engineering |
| 2019-Current | International Journal of Biomechanics and Movement Science |
| 2019-Current | Current Trends in Medical Diagnostic Methods |

**MAJOR RESEARCH INTERESTS (2-3 Sentences):**

Artificial intelligence in medicine and radiology, Radiomics, Texture analysis, Quantitative Imaging and advanced imaging in neuroradiology

**TEACHING EXPERIENCE:**

My teaching emphases are neuroradiology, brain, head and neck, and spine imaging. I participate in several teaching opportunities within UAB teaching hospitals for medical students, residents, and fellows.  Focus is working with radiology residents and neuroradiology fellows to improve their learning experience. See Teaching Portfolio for further details.

**MAJOR LECTURES AND VISITING PROFESSORSHIPS:**

**GRANT SUPPORT:**

1. Harrison, K. Accurate DCE-MRI Measurement of Glioblastoma using Point-of-care Portable Perfusion Phantom. National Cancer Institute/NIH/DHHS. $148,500. 2021. Co-investigator.
2. Kotecha, A. An Open-label, Single-arm, Single-dose, Prospective, Multicenter Phase 3 Study to Establish the Diagnostic Performance of 18F-Fluciclovine Positron Emission Tomography (PET) in Detecting Recurrent Brain Metastases After Radiation Therapy. Blue Earth Diagnostics and Precision for Medicine. $260,000. October 26, 2020-March 2022.Co-investigator.
3. Aisen, P. Global Alzheimer’s Platform Trial-Ready Cohort for Preclinical/Prodromal Alzheimer’s Disease. NIH and National Institute on Aging. $9,769,679. May 1, 2017-April 30, 2022. Co-investigator.
4. Sun Pharma Advanced Research Company Limited. A Phase 2, Randomized, Double-Blind, Placebo-Controlled Study of K0706 In Subjects with Early Parkinson’s Disease. February 18, 2019-March 2023. Role: Co-investigator
5. Swanson, CJ. A Placebo-Controlled, Double-Blind, Parallel-Group, Bayesian Adaptive Randomization Design and Dose Regimen-finding Study With an Open-Label Extension Phase to Evaluate Safety, Tolerability, and Efficacy of BAN2401 in Subjects With Early Alzheimer's Disease. Eisai Inc. $1,127,691. December 20, 2012- February 20, 2025. Co-investigator.
6. Marek, K. The Parkinson's Progression Markers Initiative (PPMI) 2.0 Clinical -Establishing a Deeply Phenotyped PD Cohort. Michael J. Fox Foundation for Parkinson's Research and Institute for Neurodegenerative Disorders.Role: Subinvestigator. $24,693,840. July 1, 2020-December 2033. Co-investigator.
7. Multiparametic metabolic and hypoxic PET/MRI for disease assessment in high grade glioma. R22-193. 300010076 ( Other Identifier ) (OTHER: University of Alabama at Birmingham IRB).ClinicalTrials.gov ID NCT05632562.
8. Alzheimer's Disease Neuroimaging Initiative 4 (ADNI4). SCON-00004457. National Institute on Aging/NIH/DHHS. $790,594.00
9. Geldmacher, D. Phase II/III Multicenter Randomized, Double-Blind, Placebo-Controlled Platform Trial of Potential Disease Modifying Therapies Utilizing Biomarker, Cognitive and Clinical Endpoints in Dominantly Inherited Alzheimer’s Disease (DIAN-TU 001). National Institute on Aging/NIH/DHHS. $ 790,594.
10. Rothenberg,S. .“Leveraging the ‘Art of Medicine’ within Radiology: Investigation of Report Framing as a Digital Therapeutic to Mitigate Nocebo Effects” .Sponsored by American Roentgen Ray Society (ARRS).Role: Co-investigator Total Direct and Indirect Costs: $180,000
11. Roberson, E. UAB Alzheimer's Disease Research Center. National Institute on Aging/NIH/DHHS. P30AG086401. Role: Neuroradiologists. 17,088,883
12. McConathy, J.E. UAB Alzheimer's Disease Research Center - Biomarker Core. National Institute on Aging/NIH/DHHS. Role: Neuroradiologists 2,436,124
13. Kim.H. Validating Reproducible Quantitative DCE-MRI for Accurate Glioblastoma Prognostication. NIH - National Institutes of Health/DHHS.Role: Co-Investigator. 3,675,222.

**OTHER:**

N/A

**BIBLIOGRAPHY:**

**Manuscripts already published:**

1. Rokni-Yazdi H, **Sotoudeh H**. Prevalence of "Dural Tail Sign" in Patients with Different Intracranial Pathologies. *Eur J Radiol*. 2006;60(1):42-5.
2. Yazdi HR, **Sotoudeh H**, Taslimi R. Absence of asygos vein in an adult patient with polysplenia syndrome. European Journal of Radiology Extra. Volume 59, Issue 2,2006: 89-92.
3. Rokni-Yazdi H, **Sotoudeh H**, Akhondzadeh S, Sotoudeh E, Asadi H, Shakiba M. Antidepressant-like Effect of Magnetic Resonance Imaging-based Stimulation in Mice. *Prog Neuropsychopharmacol Biol Psychiatry*. 2007;31(2):503-9.
4. Rokni-Yazdi H, Azmoudeh Ardalan F, Asadzandi Z, **Sotoudeh H**, Shakiba M, Adibi A, et al. Pathologic Significance of the "Dural Tail Sign". Eur J Radiol. 2009;70(1):10-6**.**
5. Rokni-Yazdi H, **Sotoudeh H**. Assessment of Normal Doppler Parameters of Portal Vein and Hepatic Artery in 37 Healthy Iranian Volunteers. Iranian Journal of Radiology. 2006 (4);213-216.
6. Rokni-Yazdi H. **Sotoudeh H**, Sharegh H., Yazdabadi A. A Case of Primary Adductor Muscle Hydatidosis:”Water-Lily Sign” on Magnetic Resonance Imaging. Iran J Radiol. 2007;4(4):223-6
7. **Sotoudeh H**, Yazdi HR. A Review on Dural Tail Sign. *World J Radiol*. 2010;2(5):188-92.
8. Vaziri-Bozorg SM, Ghasemi-Esfe AR, Khalilzadeh O, **Sotoudeh H,** Rokni-Yazdi H, Ghanaati H, et al. Antidepressant effects of magnetic resonance imaging--based stimulation on major depressive disorder: a double-blind randomized clinical trial. *Brain Imaging Behav*. 2012;6(1):70-6.
9. Mousavi M, Salehimarzijarani B, Dadvar Z, Jalalay NY, Valizadeh N, **Sotoudeh H**, et al. Relationship between continuous use of low-dose enteric-coated aspirin and gastrointestinal injuries in patients with gastrointestinal hemorrhage. *Turk J Gastroenterol*. 2013;24(2):93-8.
10. **Sotoudeh H,** Bowerson M, Parsons M, VanStavern G, Viets R, Hildebolt C, et al. Effect of spatial resolution of T2-weighted imaging on diagnostic efficacy of MRI in detection of papilledema. *AJR Am J Roentgenol*. 2015;204(3):602-7.
11. Mohammadzadeh A, Mohammadzadeh V, Kooraki S, **Sotoudeh H**, Kadivar S, Shakiba M, et al. Pretreatment Evaluation of Glioma. *Neuroimaging Clin N Am*. 2016;26(4):567-80.
12. **Sotoudeh H**, Sharma A, Fowler KJ, McConathy J, Dehdashti F. Clinical Application of PET/MRI in Oncology. *J Magn Reson Imaging*. 2016;44(2):265-76.
13. Lau JMC, Laforest R, **Sotoudeh H**, Nie X, Sharma S, McConathy J, et al. Evaluation of Attenuation Correction in Cardiac PET using PET/MR. J Nucl Cardiol. 2017;24(3):839-46.
14. **Sotoudeh H**. Spinal Canal Meningioma Mimicking Posterior Fossa Ischemia on CT perfusion: A CT Perfusion Pitfall. Radiol Case Rep. 2018;13(5):1069-71.
15. Ahuja K, **Sotoudeh H**, Galgano SJ, Singh R, Gupta N, Gaddamanugu S, et al. (18)F-Sodium fluoride Positron Emission Tomography: History, Technical Feasibility, Mechanism of Action, Normal Bio-distribution, and Diagnostic Performance in Bone Metastasis Detection Compared to Other Imaging Modalities. J Nucl Med Technol. 2019.
16. Bernstock JD, Ostby S, Fox B, **Sotoudeh H**, Janssen A, Kang YJ, et al. Cauda Equina Syndrome in an Ovarian Malignant-mixed Mullerian Tumor with Leptomeningeal Spread. Clin Case Rep. 2019;7(12):2341-5.
17. Bernstock, J., Shafaat, O., Hardigan, A., Fox, B., Moore, L., Chagoya, G., Elsayed, G., Gessler, F., Ilyas, A., Yamashita, D., McGrew, B., Fisher, W., Hackney, J., **Sotoudeh H**. Angiosarcoma of the Temporal Bone: Case Report and Review of the Literature. World Neurosurg. 2019;130:351-7.
18. Fox, F., Janssen, A., Estevez-Ordonez, D., Gessler, F., Vicario, N, Chagoya, G., Elsayed, G., **Sotoudeh H**, Stetler, W., Friedman, G. Bernstock, J. SUMOylation in Glioblastoma: A Novel Therapeutic Target. Int J Mol Sci. 2019;20(8).
19. **Sotoudeh H**. Status Epilepticus, Hemispheric Confusion, a CT Perfusion Pitfall in “Code Stroke” Patients: A Case Report. Iran J Radiol 2019;16(1).
20. Shafaat O, **Sotoudeh H**. Stroke Imaging. StatPearls. Treasure Island (FL)2019.
21. Sotoudeh E, Hussain S, Shafaat O, **Sotoudeh H**. Fungal Peritonitis with Fungus Balls, a Complication of Trichobezoars and Rapunzel Syndrome. Am J Case Rep. 2019;20:685-8.
22. **Sotoudeh H**, Bag AK, Brooks MD. "Code-Stroke" CT Perfusion; Challenges and Pitfalls. Acad Radiol. 2019.
23. **Sotoudeh H**, Shafaat O, Aboueldahab N, Vaphiades M, Sotoudeh E, Bernstock J. Superior Ophthalmic Vein Thrombosis: What Radiologist and Clinician Must Know? Eur J Radiol Open. 2019;6:258-64.
24. **Sotoudeh H**, Shafaat O, Bernstock JD, Brooks MD, Elsayed GA, Chen JA, et al. Artificial Intelligence in the Management of Glioma: Era of Personalized Medicine. Front Oncol. 2019;9:768.
25. **Sotoudeh H**, Shafaat O, Singhal A, Bag A. Luxury perfusion: A Paradoxical Finding and Pitfall of CT Perfusion in Subacute Infarction of Brain. Radiol Case Rep. 2019;14(1):6-9.
26. **Sotoudeh H**, Shafaat O, Sotoudeh E. Misleading CT Perfusion in Subacute Ischemic Stroke. Emerg Radiol. 2019;26(5):581-6.
27. **Sotoudeh, H.**, Tabatabaei, M., Tasorian, B., Tavakol, K., Sotoudeh, E., Latif-Moini, A. Artificial Intelligence Empowers Radiologists to Differentiate Pneumonia Induced by COVID-19 versus Influenza Viruses. ACTA INFORM MED. 2020 SEP 28(3): 190-195.
28. Singhal A, Adhikari N, de Idiaquez Bakula DA, **Sotoudeh H**. 18F-FDG Uptake in a T2 Hypointense Paraspinal Mass. Clin Nucl Med. 2020.
29. **Sotoudeh H**, Chapman PR, Sotoudeh E, Singhal A, Choudhary G, Shafaat O. Pseudohypoxic Brain Swelling: Report of 2 Cases and Introduction of the Lentiform Rim Sign as Potential MRI Marker. World Neurosurg. 2020;133:221-6.
30. Sotoudeh E, **Sotoudeh H**. A hypothesis about the role of fetal hemoglobin in COVID-19. Med Hypotheses. 2020;144:109994.
31. **Sotoudeh H**, Elsayed G, Ghandili S, Shafaat O, Bernstock JD, Chagoya G, et al. Prevalence of Sigmoid Sinus Dehiscence and Diverticulum among Adults with Skull Base Cephaloceles. AJNR Am J Neuroradiol. 2020;41(7):1251-5.
32. Shafaat, O., **Sotoudeh, H**., Zandifar, A., Chapman, P., Roberson, G., Sotoudeh, E., Singhal, A. Critical Illness-associated Cerebral Microbleed in a Patient with Sickle Cell Disease: A Case Report and Review of the Literature. Clin Imaging. 2020 Dec;68:184-187.
33. Shen JZ, Memon AA, Hackney JR, **Sotoudeh H**, Fathallah-Shaykh H. NKX3.1 Identifies Prostatic Origin of Dural Metastasis in the Setting of Negative Prostate-Specific Antigen Stain. The Neurohospitalist. 2020.
34. Shen, J., Memon, A., Agnihotri, S., **Sotoudeh H**. Noncirrhotic Hyperammonemic Encephalopathy Causing Bilateral Cortical Diffusion Restrictions. The Neurohospitalist. 2020.
35. **Sotoudeh, H**., Razaei, A., Saadatpour, Z., Gaddamanugu, S., Choudhary, G., Omid, S., Singhal, A. Brainstem Encephalitis. The Role of Imaging in Diagnosis. Current Problems in Diagnostic Radiology. 2020
36. Saadatpour Z, Rezaei A, Singhal A, **Sotoudeh H**, Tavakol K. A Solitary Hypothalamic Metastasis from Prostatic Cancer Mimicking a Giant Thrombotic Aneurysm and Presenting with Intraventricular Hemorrhage and Acute Hydrocephalus: A Case Report. Egyptian Journal of Radiology and Nuclear Medicine. 2020; 51:257-260. Doi: 10.1186/s43055-020-00367-z.
37. Tavakoli, M, **Sotoudeh, H**, Rezaei, A., Saadatpour, Z., Vaphides, M., Kline. Optic Nerve Infarction in a Patient with Coronavirus Disease 2019. J Neuroophthalmol. 2021 Feb 2.
38. **Sotoudeh H**, Sarrami AH, Wang JX, Saadatpour Z, Razaei A, Gaddamanugu S, Choudhary G, Shafaat O, Singhal A. Susceptibility-Weighted Imaging in Neurodegenerative Disorders: A Review. J Neuroimaging. 2021 Feb 23. doi: 10.1111/jon.12841.
39. Shafaat, O., Chapman, P., Zandifar, A., Sotoudeh, E., Baumgartner, E., **Sotoudeh, H**. Heavily Calcified Parapharyngeal Space Mesenchymal Chondrosarcoma: Imaging and Pathological Findings and a Review of the Literature. Neuroradiol J. 2021 Feb;34(1):45-48.
40. GBD 2019 Dementia Collaborators. Hearing Loss Prevalence and Years Lived with Disability, 1990-2019: Findings from the Global Burden of Disease Study 2019. Lancet. 2021 Mar 13;397(10278):996-1009.
41. **Sotoudeh, H**. Radiomics in Oncology. Acta Scientific CANCER BIOLOGY, Volume 5 Issue 3 March 2021.
42. Shafaat O, Bernstock JD, Shafaat A, Yedavalli VS, Elsayed G, Gupta S, Sotoudeh E, Sair HI, Yousem DM, **Sotoudeh, H**. Leveraging Artificial Intelligence in Ischemic Stroke Imaging. *J Neuroradiol*. 2021 May 11:S0150-9861(21)00106-1.
43. Singhal, A, **Sotoudeh, H**, Chapman, P. Skull Base Osteomyelitis Imaging. *Current Opinion in Otolaryngology & Head and Neck Surgery*. July 28, 2021 - Volume - Issue - doi: 10.1097/MOO.0000000000000747.
44. GBD 2019 Dementia Collaborators. Use of Multidimensional Item Response Theory Methods for Dementia Prevalence Prediction: An Example Using the Health and Retirement Survey and the Aging, Demographics, and Memory Study. *BMC Med Inform Decis Mak*. 2021 Aug 11;21(1):241. doi: 10.1186/s12911-021-01590-y.
45. Tabatabaei, M., Rezaei, A., Hossein Sarrami, A., Saadatpour, Z., Singhal, A., **Sotoudeh, H**. Current Status and Quality of Machine Learning-based Radiomics Studies for Glioma Grading: A Systematic Review. *Oncology*. 2021. DOI: 10.1159/000515597.
46. **Sotoudeh H**, Gity M. The Role of Medical Imaging in COVID-19. Adv Exp Med Biol. 2021;1318:413-434. doi: 10.1007/978-3-030-63761-3\_24.
47. Gaddamanugu S, Shafaat O, **Sotoudeh H**, Sarrami AH, Rezaei A, Saadatpour Z, Singhal A. Clinical applications of diffusion-weighted sequence in brain imaging: beyond stroke. Neuroradiology. 2022 Jan;64(1):15-30. doi: 10.1007/s00234-021-02819-3. Epub 2021 Oct 1. PMID: 34596716; PMCID: PMC8484843.
48. **Sotoudeh H**, Singhal A, Chapman PR, Roberson GH. Reply to the letter: "Letter to the editor regarding differentiating fat embolism from critical illness associated cerebral microbleeds.". Clin Imaging. 2022 Mar;83:194. doi: 10.1016/j.clinimag.2021.09.016. Epub 2021 Oct 6. PMID: 34635370.
49. Tabatabaie M, Sarrami AH, Didehdar M, Tasorian B, Shafaat O, **Sotoudeh H**. Accuracy of Machine Learning Models to Predict Mortality in COVID-19 Infection Using the Clinical and Laboratory Data at the Time of Admission. Cureus. 2021 Oct 14;13(10):e18768.
50. **Sotoudeh H**, Sadaatpour Z, Rezaei A, Shafaat O, Sotoudeh E, Tabatabaie M, Singhal A, Tanwar M. The Role of Machine Learning and Radiomics for Treatment Response Prediction in Idiopathic Normal Pressure Hydrocephalus. Cureus. 2021 Oct 5;13(10):e18497. doi: 10.7759/cureus.18497. PMID: 34754658; PMCID: PMC8569645.
51. Tabatabaei M, Tasorian B, Goyal M, Moini A, **Sotoudeh H**. Feasibility of Radiomics to Differentiate Coronavirus Disease 2019 (COVID-19) from H1N1 Influenza Pneumonia on Chest Computed Tomography: A Proof of Concept. Iran J Med Sci. 2021 Nov;46(6):420-427. doi: 10.30476/ijms.2021.88036.1858. PMID: 34840382; PMCID: PMC8611216.
52. Global Burden of Disease 2019 Cancer Collaboration. Cancer Incidence, Mortality, Years of Life Lost, Years Lived With Disability, and Disability-Adjusted Life Years for 29 Cancer Groups From 2010 to 2019: A Systematic Analysis for the Global Burden of Disease Study 2019. JAMA Oncol. 2022 Mar 1;8(3):420-444. doi: 10.1001/jamaoncol.2021.6987. PMID: 34967848; PMCID: PMC8719276.
53. **Sotoudeh H**, Sarrami AH, Roberson GH, Shafaat O, Sadaatpour Z, Rezaei A, Choudhary G, Singhal A, Sotoudeh E, Tanwar M. Emerging Applications of Radiomics in Neurological Disorders: A Review. Cureus. 2021 Dec 1;13(12):e20080. doi: 10.7759/cureus.20080. PMID: 34987940; PMCID: PMC8719529.
54. Haghshomar M, Shobeiri P, Seyedi SA, Abbasi-Feijani F, Poopak A, **Sotoudeh H**, Kamali A, Aarabi MH. Cerebellar Microstructural Abnormalities in Parkinson's Disease: a Systematic Review of Diffusion Tensor Imaging Studies. Cerebellum. 2022 Aug;21(4):545-571. doi: 10.1007/s12311-021-01355-3. Epub 2022 Jan 10. Erratum in: Cerebellum. 2022 Apr 7;: PMID: 35001330.
55. Luckett JP, **Sotoudeh H**, Tabibian BE, Markert JM, Kline LB. Cerebral Venous Sinus Thrombosis following Ventriculoperitoneal Shunting for Idiopathic Intracranial Hypertension. Neuroophthalmology. 2021 Jun 18;46(2):91-94. doi: 10.1080/01658107.2021.1931351. PMID: 35273411; PMCID: PMC8903763.
56. Haghshomar M, Shobeiri P, Seyedi SA, Abbasi-Feijani F, Poopak A, **Sotoudeh H**, Kamali A, Aarabi MH. Correction to: Cerebellar Microstructural Abnormalities in Parkinson's Disease: a Systematic Review of Diffusion Tensor Imaging Studies. Cerebellum. 2022 Aug;21(4):572. doi: 10.1007/s12311-022-01402-7. Erratum for: Cerebellum. 2022 Aug;21(4):545-571. PMID: 35391651.
57. Shafaat O, **Sotoudeh H**. Stroke Imaging. 2022 May 8. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan–. PMID: 31536242.
58. Khan AU, **Sotoudeh H**, Gaddamanugu S, Shafaat O, Hadley C, Singhal A. Radiological and Clinical Findings of Non-bifurcating Carotid Artery With Aberrant Course: A Case Report and Review of the Literature. Cureus. 2022 Jun 13;14(6):e25917. doi: 10.7759/cureus.25917. PMID: 35844316; PMCID: PMC9279549.
59. J.D. Perchik,A.D. Smith,A.A. Elkassem,J.M. Park,S.A. Rothenberg,M. Tanwar,P.H. Yi,A. Sturdivant,S. Tridandapani,**H. Sotoudeh**. Artificial Intelligence Literacy: Developing a Multi-institutional Infrastructure for AI Education. Academic Radiology.
60. **Sotoudeh H**, Saadatpour Z, Rezaei A, Sotoudeh M, Wheeler CA, Singhal A, Tanwar M. Radiomics for differentiation of the posterior fossa pilocytic astrocytoma versus hemangioblastomas in adults. A pilot study. Clin Imaging. 2023 Jan;93:26-30. doi: 10.1016/j.clinimag.2022.10.017. Epub 2022 Nov 7. PMID: 36370592.
61. **Sotoudeh H**, Alizadeh M, Shahidi R, Shobeiri P, Love N, Singhal A. Subcortical signal alteration of corticospinal tracts. A radiologic manifestation of ARIA: A case report. Radiol Case Rep. 2022 Nov 6;18(1):275-279. doi: 10.1016/j.radcr.2022.10.023. PMID: 36388611; PMCID: PMC9647162.
62. McNelly C, **Sotoudeh H**, Kline L. Orbital Myositis Mimicking Wall-Eyed Bilateral Internuclear Ophthalmoplegia. Ophthalmology. 2023 Jan 14:S0161-6420(22)00985-X. doi: 10.1016/j.ophtha.2022.12.011. Epub ahead of print. PMID: 36646581.
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| **REVIEWER:**   |  |  | | --- | --- | | 2012-Present | Iranian Journal of Radiology | | 2019-Present | Journal of Spine & Neurosurgery Journal | | 2019-Present | Clinical Surgery | | 2019-Present | American Journal of [Roentgenology](https://www.scimagojr.com/journalsearch.php?q=20029&tip=sid&clean=0) (AJR) | | 2019-Present | Journal of Medical Diagnostic Methods | | 2019-Present | Emergency Radiology | | 2019-Present | Journal of Otolaryngology, Head & Neck Surgery | | 2019-Present | Frontiers in Neuroscience | | 2019-Present | BMJ case reports | | 2019-Present | Neurosurgical Review | | 2019-Present | Information & Communications Technology Express | | 2020-Present | Frontiers in Pharmacology | | 2020-Present | American Journal of Neuroradiology (AJNR) | | 2020-Present | International Immunopharmacology | | 2020-Present | Journal of Cancer | | 2020-Present | Swiss National Science Foundation | | 2020-Present | Systematic Review and Meta-analysis Expert Group (SRMEG), Universal Scientific Education and Research Network (USERN) | | 2020-Present | International Journal of Imaging Systems and Technology (IMA) | | 2020-Present | Journal of the American Academy of Dermatology | | 2021-Present | Scientific Reports | | 2021-Present | Radiology: Artificial Intelligence | | 2021-Present | Kaul Pediatric Research Institute (KPRI) | | 2021-Present | Brain Sciences | | 2021-Present | Bosnian Journal of Basic Medical Sciences | | 2021-Present | International Journal of Cancer Management | | 2022-Present | Cereus Journal of Cancer Management | | 2021-Present | Symmetry | | 2022-Present | Diagnostics | | 2022-Present | European Radiology | | 2022-Present | Journal of Clinical Medicine | | 2022-Present | Neurology and Therapy |   **BOOKS:**   1. Mirzaei M, Jenab Y, Babaie Jandaghi A, Samadpour R, Hekmat H, Keshavarz A, Alizadeh S, **Sotoudeh H**, Mehrbani M, Tavajohi A, Jalili M and Karami N. **Internal medicine and infectious diseases.** 2005. ISBN: 964-8106-99-1 (Persian language) 2. Shahi F, **Sotoudeh H** and Ramazanpour Asl A. **First Aid of Rheumatology**. 2005. ISBN: 964-456-997-0 (Persian language) 3. Shahi F, Naamdar H, Abbasi A and **Sotoudeh H**. **First Aid of Alimentary Tract**. 2005. ISBN: 964-456-941-5 (Persian language) 4. Mohajerani, P., **Sotoudeh, H.** ***Essentials of AI techniques: With a Focus on Medicine and Healthcare, without Math or Coding***, ISBN 9798612814870, 2020.   **BOOK CHAPTERS:**   1. **Sotoudeh H**, Gity M. The Role of Medical Imaging in COVID-19. Adv Exp Med Biol. 2021;1318:413-434. 2. Choudhary G., **Sotoudeh H**. Role of PET/MR in Squamous Cell Cancer Staging. In: Franceschi A.M., Franceschi D. (eds) Hybrid PET/MR Neuroimaging.2022 Springer, Cham. 627-638. 3. **Sotoudeh H.**, Choudhary G. (2022) Metastatic Disease in the Head and Neck. In: Franceschi A.M., Franceschi D. (eds) Hybrid PET/MR Neuroimaging.2022 Springer, Cham. 657-670.   **EXHIBITS:**  **Poster Exhibit**:  **Oral Presentations:**  **Scientific Papers Presented at National and International Meetings:**   1. **Sotoudeh, H.**, Bowerson M., Parsons M., VanStavern G., Viets R., Hildebolt C., Sharma A. Effect of Spatial Resolution of T2-weighted Imaging on Diagnostic Efficacy of MRI in the Detection of Papilledema. RSNA. Chicago, USA, 2013. 2. **Sotoudeh, H**. 34th Iranian Congress of Radiology: A to Z of PET for Radiologists. Tehran, Iran. 2018. 3. **Sotoudeh, H**. 34th Iranian Congress of Radiology: PET Mammography (PEM) What We Know. Tehran, Iran. 2018. 4. **Sotoudeh, H**. 34th Iranian Congress of Radiology: Molecular Breast Imaging (MBI). Tehran, Iran. 2018. 5. **Sotoudeh, H.** The role of PETMR in Oncology. 2nd Congress of Cancer. San Diego, California, USA. 2018. 6. Vaphiades, M., **Sotoudeh, H.**, Shafaat, O., Aboueldahab, N. Superior Ophthalmic Vein Thrombosis: A Clinical Study. 45th North American Neuro-Ophthalmology Society (NANOS) Annual Meeting. Las Vegas, Nevada, USA. 2019. 7. **Sotoudeh, H.**, Shafaat, O. Application of Susceptibility Imaging (SWI) in Neurodegenerative Disorders. ASNR 2019. Boston, Massachusetts, USA. 2019. 8. **Sotoudeh, H.**, Shafaat, O. Standard Interpretation and Structural Report in Code-stroke CT Perfusion. ASNR 2019. Boston, Massachusetts, USA. 2019. 9. **Sotoudeh, H.**, Shafaat O., Chapman, P. Para-pharyngeal Mesenchymal Chondrosarcoma. ASNR 2019 Boston, USA. 2019. 10. **Sotoudeh, H.** Artificial Intelligence in Radiology. 35th Iranian Congress of Radiology. Tehran, Iran. 2019. 11. **Sotoudeh, H**. Post-treatment Imaging in Primary CNS Neoplasms. 35th Iranian Congress of Radiology. Tehran, Iran. 2019. 12. **Sotoudeh, H**. Anatomic Imaging in Neurodegenerative Disorders. 35th Iranian congresses of Radiology. Tehran, Iran. 2019. 13. **Sotoudeh, H**. Structural Report for Code-stroke CT Perfusion with 2018 Guideline. 35th Iranian Congress of Radiology. Tehran, Iran. 2019. 14. **Sotoudeh, H.** Glomus Jugulare and Carotid Balloon Occlusion Test (BOT), Case of the Day. 2020 ASHNR annual meeting. Virtual meeting. 2020. 15. **Sotoudeh, H.** Chalk Talk; Radiologic Response Criteria in Oncology; Past, Present, and Future. St. Jude Children’s Research Hospital, Memphis, Tennessee, USA. 2020. 16. **Sotoudeh, H**. Radiomic in Glioma. St. Jude Children’s Research Hospital, Memphis, Tennessee, USA. 2020. 17. **Sotoudeh, H.**, Chapman, P., Roberson, G., Shafaat, O., Sotoudeh, E., Singhal, A. “Critical illness-Associated Cerebral Micro-bleed / Cerebral Micro-bleed Associated with Critical Illness” in a Patient with Sickle Cell Disease. American Society of Neuroradiology; 58th Annual meeting. Virtual meeting. 2020. 18. **Sotoudeh, H.**, Sotoudeh, E., Shafaat, O. The Brainstem Encephalitis. The Role of Imaging in Diagnosis. American Society of Neuroradiology; 58th Annual meeting. Virtual meeting. 2020. 19. Shafaat, O., Ghandili, S., Elsayed, G., Bernstock, J., Chagoya, G, Talati, P., Singhal, A., **Sotoudeh, H**. Prevalence of Sigmoid Sinus Dehiscence/Diverticulum Among Adults with Skull Base Cephaloceles. American Society of Neuroradiology; 58th Annual meeting. Virtual meeting. 2020. 20. Baldwin, C., Singhal, A., **Sotoudeh, H.**. Utility of Separate Maxillofacial CT Imaging in Trauma Patients Already Receiving a Cervical Spine CT Exam in the Emergency Room Setting. ASNR, 58th Annual meeting. Virtual meeting. 2020. 21. **Sotoudeh, H.**, Sotoudeh, E., Sarrami, A., Saadatpour, Z., Rezaei, A., Tabatabaei, S., Singhal, A. Essentials of Radiomics for the Neuroradiologists. 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The Role of Machine Learning and Radiomics for Treatment Response Prediction in Idiopathic Normal Pressure Hydrocephalus; ASNR 2022. 27. **Sotoudeh, H**., Gaddamanugu, S., Tanwar, M. Spectrum of Neuroimaging Findings in COVID-19 Induced Encephalitis. ASNR 2022. 28. **Sotoudeh, H**., Sarrami, A., Roberson, G., Shafaat, O., Saadatpour, Z., Rezaei, A., Babaei Jandaghi, A., Singhal, A., Sotoudeh, E., Tanwar, M. Non-Oncologic Applications of Radiomics in Neuroradiology. ASNR 2022. 29. **Sotoudeh, H**., Saadatpour, Z., Rezaei, A., Shafaat, O., Sarrami, A., Roberson, G., Sotoudeh, E., Singhal, A., Tanwar, M. Radiomics in Neurodegenerative Disorders. ASNR 2022. 30. **Sotoudeh, H**., Sarrami, A., Sotoudeh, E. Emerging Role of Radiomics in Psychiatric Disorders. ASNR 2022. 31. Tanwar, M., Haneef Mohamed, A. , Jones, J. , **Sotoudeh, H**. The Spectrum of Intracranial Cerebrovascular Lesions on Conventional T2-weighted Images. ASNR 2022 hybrid meeting. 32. Wheeler C., Gaddamanugu, S., **Sotoudeh H**. The Forgotten Foramen: A Radiologist’s Guide to Foramen lacerum. ASNR 2022 hybrid meeting. 33. **Sotoudeh, H.**Imaging Findings That Cause False Positive Predictions of Intracranial Hemorrhage by Artificial Intelligence, a Pictorial Review. RSNA 2022 34. Raman, F., Mullen, A., Byrd, M., Bae, S., Kim, J., **Sotoudeh, H.**, Fathallah-Shaykh, H. Evaluation of RANO criteria for assessment of tumor progression for lower-grade gliomas. RSNA 2022 35. Savage, C., Tanwar, M., **Sotoudeh, H**., Sirineni, G., Jobanputra, K., Rehder, D., Singhal, A, Milner, D., Jones, J., Rothenberg, S., Smith, A. Prospective real-world comparison of standard of care vs. AI for detection and triage of intracranial hemorrhage on noncontrast head CT. RSNA 2022 36. **Sotoudeh, H.** Improving Patient MRI Access: a Few Tips and Tricks from a Neuroimaging Perspective. ASNR 2023 37. **Sotoudeh, H.** Prediction of Spontaneous Basal Ganglia Hematoma Expansion; Clinical Data Versus Radiology signs Versus Radiomics; A Pilot Study. ASNR 2023 38. **Sotoudeh, H.** Subcortical Signal Alteration of Corticospinal Tracts. A Radiologic Manifestation of ARIA. ASNR 2023 39. In Tune with an AR A: A Radiologist’s Guide to Complications of Amyloid Immunotherapy CA Wheeler , R Shahidi, P Shobeiri, M Alizadeh, M Natelson Love, **H Sotoudeh.** ASNR 2023 40. Acute Necrotizing Encephalopathy in Adult Patients With COVID-19: A Systematic Review of Case Reports and Case Series. Hamad Muhammad, Shaghayegh Karamia , Fattaneh Khalajb , Zohreh Tajabadid , Ramin Shahidie , Mohammad Amin Habibif , Mahsa Shirforoush Sattarig , Amir Azimih , Seyed Ali Forouzanniai , Romina Rafieii , Hamid Reihanij , Reza Nematik , Soraya Teimoril , Amirmohammad Khalajia , Vida Sarmadim , Ali Dadjoue, **Houman Sotoudeh.** UAB Radiology Research Retreat Poster Session, Birmingham 2024 41. Diagnostic performance of MRI radiomics for classification of Alzheimer's disease, mild cognitive impairment, and normal subjects: a systematic review and meta‑analysis. Hamad Muhammad, Ramin Shahidi · Mansoureh Baradaran · Ali Asgarzadeh · Sara Bagherieh · Zohreh Tajabadi5 · Akram Farhadi ·Setayesh Sotoudehnia Korani · Mohammad Khalafi · Parnian Shobeiri · Hamidreza Sadeghsalehi ·Arezoo Shafieioun · Mohammad Amin Yazdanifar · Aparna Singhal · **Houman Sotoudeh.** UAB Radiology Research Retreat Poster Session, Birmingham 2024 42. Jeffrey Ryne Black and **Houman Sotoudeh**. Intracranial migration of silicone to the optic chiasm, a rare complication of intraocular silicone injection. ASNR annual meeting 2024. Las Vegas. 43. Aparna Singhal, **Houman Sotoudeh**. NuRTuRe One (NeuroradiologyTo R1): A One-to-one Attending-Resident Mentorship during neuroradiology rotation. ASNR annual meeting 2024. Las Vegas. 44. "Point-of-Care Perfusion Phantom for Accurate Quantitative DCE-MRI to Distinguish Pseudo and True Progressions of Glioblastoma" has been accepted as a SNAP ORAL PRESENTATION in the session "MRI" for the 66th Annual Meeting & Exhibition of the American Association of Physicists in Medicine in Los Angeles, CA, July 21 - 25, 2024. 45. Broomand Lomer, Nima; Khalaj, Fattaneh; Ghorani, Hamed; Mohammadi, Mohammad; Ghadimi, Delaram; Zakavi, Sina; Afsharzadeh, Mahshad; **Sotoudeh, Houman**. Diagnostic Performance of Radiomics in Prediction of Meningioma Aggressiveness Using Ki-67 Index. RSNA 2024 46. A. Abou Elkassem, A. D. Smith, S. J. Galgano, S. A. Rothenberg, S. Tridandapani, M. Tanwar, H. Sotoudeh, C. M. Burgan, Y. Melenevsky;   QUALITY CONTROL OF DEEP LEARNING MR IMAGE RECONSTRUCTION AT 0.55 TESLA. RSNA 2024      **Scientific Papers Presented at Local and Regional Meetings**   1. **Sotoudeh, H**. Mallinckrodt Institute of Radiology Annual Talk in Nuclear Medicine: PET/MR Application in Oncology. St Louis, Missouri, USA, 2014. 2. **Sotoudeh, H**. Mallinckrodt Institute of Radiology Annual Talk in Nuclear Medicine: Response Criteria in Oncology, St Louis, Missouri, USA, 2015. 3. **Sotoudeh, H.** Neuroradiology Case Conference. Weekly conference. 2017-Present. Birmingham, USA. 4. **Sotoudeh, H**. Neurology Grand Round (UAB). Aug 2018. Birmingham, USA. 5. **Sotoudeh, H.** Neuroradiology-Neurology, joined Conference. Weekly Conference. 2018- Present. Birmingham, USA. 6. **Sotoudeh, H**. Neurology Grand Round (UAB). Oct 2019. Birmingham, USA. 7. **Sotoudeh, H**. Neurology Grand Round (UAB). Jan 2020. Birmingham, USA. 8. **Sotoudeh, H**. Neurology Ground Round (UAB). April 2020. Birmingham, USA. 9. **Sotoudeh, H**. Neurology Ground Round (UAB). May 2020. Birmingham, USA. 10. **Sotoudeh, H**. Neurology Ground Round (UAB): June 2020. Birmingham, USA. 11. **Sotoudeh, H**. Neurology Ground Round (UAB). Sept 2020. Birmingham, USA. 12. **Sotoudeh, H**. Neurology Ground Round (UAB). Oct 2020. Birmingham, USA. 13. **Sotoudeh, H**. Neurology Ground Round (UAB): Dec 2020. Birmingham, USA. 14. **Sotoudeh, H**. Neurology Ground Round (UAB): Jan 2021. Birmingham, USA. 15. **Sotoudeh, H**. Neurology Ground Round (UAB): March 2021. Birmingham, USA. 16. **Sotoudeh, H**. Neurology Ground Round (UAB): August 2021. Birmingham, USA.   **Invited Workshops, etc. at National and International Postgraduate Courses and Meetings and at other Universities:**   1. **Sotoudeh, H.** PET and PEM workshop; 34th Iranian congress of Radiology. Tehran, Iran. 2018. Invited guest. 2. **Sotoudeh, H.** 34 Iranian congresses of Radiology. Tehran, Iran. 2018. Invited lecturer. 3. **Sotoudeh, H.** 2nd congress of cancer; San Diego, California, USA.2018. Invited lecturer. 4. **Sotoudeh, H**. 35th Iranian Congress of Radiology. Tehran, Iran. 2019. Invited lecturer. 5. **Sotoudeh H**. Radiologic response criteria in neuro-oncology. St. Jude Children’s Research Hospital, Memphis, Tennessee, USA. 2020. Invited lecturer. 6. **Sotoudeh H**. Radiomics, Introduction, Current status, Challenges and Recommendations. Michigan State university. Michigan, USA. 2023 7. **Sotoudeh H**. Current applications of Radiomics in neurological disorders. Michigan State university. Michigan, USA. 2023 8. **Sotoudeh H**. Neuroimaging in neurology rounds. Michigan State university. Michigan, USA. 2023 9. **Sotoudeh H**. The current role of Quantitative imaging in pediatric neuro-oncology. St. Jude Children’s Research Hospital, Memphis, Tennessee, USA. July 2024. Invited Visiting Professorship.   **MISCELLANEOUS**:  **Other Certificates**:   |  |  | | --- | --- | | 2019 | Python coding, Coursera | |