



## Michael Iv

Clinical Professor, Radiology

### CLINICAL OFFICE (PRIMARY)

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### Bio

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#### BIO

Dr. Michael Iv received his medical degree from the David Geffen School of Medicine at UCLA. He completed his radiology residency training at Santa Clara Valley Medical Center and neuroradiology fellowship at Stanford University. He is board certified in Diagnostic Radiology and also holds a Certificate of Added Qualification in Neuroradiology. His primary research interest focuses on the use of advanced MRI techniques to probe the brain tumor microenvironment and improve our diagnostic capability to effectively monitor a tumor's response to treatment. Examples include using ferumoxytol-enhanced MRI to image tumor associated macrophages and perfusion MRI to image tumor vascularity and neoangiogenesis. He has received multiple intramural and extramural grants including the Radiological Society of North America Research Scholar Grant and Musella Foundation for Brain Tumor Research Grant to support his work. He was also a co-editor of a published two volume book set titled "Glioblastoma: State-of-the-Art Clinical Neuroimaging" and, more recently, authored the book "Neuroradiology Q&A for the Radiology Boards". He currently serves as the Director of Clinical and Translational Research for the Department of Radiology and the Director of Brain Tumor Imaging at the Stanford Brain Tumor Center.

#### CLINICAL FOCUS

- Neuroradiology
- Brain Tumor Imaging
- Vascular Imaging
- Diagnostic Neuroimaging

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Radiology
- Member, Stanford Cancer Institute

#### ADMINISTRATIVE APPOINTMENTS

- Director, Office of Clinical and Translational Research (OCTR), Department of Radiology, (2024- present)
- Director of Brain Tumor Imaging, Stanford Brain Tumor Center, (2020- present)

- Co-director, Medical Student Neuroradiology Clerkship, (2015-2024)
- Associate Program Director, Radiology Residency, (2016-2019)
- Senator, School of Medicine, Faculty Senate, (2015-2017)

## HONORS AND AWARDS

- Research Scholar Grant, RSNA (2015-2017)
- Grant, Musella Foundation for Brain Tumor Research (2015)
- Angel Grant, Stanford Radiology (2013)
- Chief Resident, Santa Clara Valley Medical Center (2009)
- Dean's Scholar for Outstanding Medical Student Thesis in Radiology, UCLA (2006)
- Ceslo Gonzalez/Lopo Family Fellowship Award for Academic Excellence and Leadership, UCLA (2003)
- Leadership Academy Scholarship, California Medical Association (2003)
- Magna Cum Laude, UCR (2003)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Editorial Board (Neuroradiology Co-Editor), Cancer Imaging (2025 - present)
- Member, Western Neuroradiological Society (WNRS) (2022 - present)
- Editorial Board (Assistant Editor), Neurosurgery (2022 - 2025)
- Editorial Board (Associate Editor), Frontiers in Radiology (2021 - present)
- Member, American Society of Functional Neuroradiology (ASFNR) (2017 - present)
- Member, International Society for Magnetic Resonance in Medicine (ISMRM) (2013 - present)
- Member, American Society of Neuroradiology (ASNR) (2011 - present)
- Member, American College of Radiology (ACR) (2007 - present)
- Member, Radiological Society of North America (RSNA) (2006 - present)

## PROFESSIONAL EDUCATION

- Medical Education: UCLA David Geffen School Of Medicine (2006) CA
- Fellowship: Stanford University Neuroradiology Fellowship (2013) CA
- Internship: Cedars Sinai Medical Center Internal Medicine Residency (2007) CA
- Residency: Santa Clara Valley Medical Center (2011) CA
- Board Certification, Neuroradiology , American Board of Radiology (2013)
- Board Certification: Diagnostic Radiology, American Board of Radiology (2011)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My clinical and research interests include brain tumor and vascular imaging in both the adult and pediatric populations, incorporating advanced MR imaging techniques and analyses using qualitative and quantitative methods.

### CLINICAL TRIALS

- MR Imaging Inflammatory Responses in the CNS w/ Ferumoxytol-Enhanced MRI (Peds Brain Tumor Protocol), Not Recruiting
- Phase I BPM31510 +Vitamin K in High-Grade Glioma that has Recurred on Bevacizumab Containing Regimen, Not Recruiting
- Pilot MR Imaging of Inflammatory Responses in Central Nervous System with Ferumoxytol-enhanced MRI, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Med Scholar Project Advisor

Shriya Awasthi, Henry Nguyen

## Publications

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### PUBLICATIONS

- **Arterial spin labeling perfusion MRI differentiates between radiation necrosis and tumor in brain metastases treated with stereotactic radiosurgery.** *Neuro-oncology advances*  
Nguyen, H. H., Ng, N. N., Awasthi, S., Vogel, H., Iv, M.  
2025; 7 (1): vdaf091
- **Arterial Spin-Labeling and DSC Perfusion Metrics Improve Agreement in Neuroradiologists' Clinical Interpretations of Posttreatment High-Grade Glioma Surveillance MR Imaging-An Institutional Experience.** *AJNR. American journal of neuroradiology*  
Yamin, G., Tranvinh, E., Lanzman, B. A., Tong, E., Hashmi, S. S., Patel, C. B., Iv, M.  
2024
- **Ferumoxytol-Enhanced MRI in Brain Tumor Imaging** *Advances in Clinical Radiology*  
Yagmurlu, B., Hamilton, B. E., Szidonya, L., Barajas Jr, R. F., Iv, M.  
2024; 6 (1): 175-186
- **Brain Tumor Imaging: Review of Conventional and Advanced Techniques.** *Seminars in neurology*  
Campion, A., Iv, M.  
2023
- **Tumor treating fields increases blood-brain barrier permeability and relative cerebral blood volume in patients with glioblastoma.** *The neuroradiology journal*  
Iv, M., Naya, L., Sanan, S., Van Buskirk, S. L., Nagpal, S., Thomas, R. P., Recht, L. D., Patel, C. B.  
2023: 19714009231207083
- **DSC Perfusion MRI-Derived Fractional Tumor Burden and Relative CBV Differentiate Tumor Progression and Radiation Necrosis in Brain Metastases Treated with Stereotactic Radiosurgery.** *AJNR. American journal of neuroradiology*  
Kuo, F., Ng, N. N., Nagpal, S., Pollom, E. L., Soltys, S., Hayden-Gephart, M., Li, G., Born, D. E., Iv, M.  
2022
- **Conventional and Advanced Imaging Techniques in Post-treatment Glioma Imaging** *Frontiers in Radiology*  
Li, A. Y., Iv, M.  
2022
- **Clinical Review of Computed Tomography and MR Perfusion Imaging in Neuro-Oncology.** *Radiologic clinics of North America*  
Trinh, A., Wintermark, M., Iv, M.  
2021; 59 (3): 323–34
- **Handling missing MRI sequences in deep learning segmentation of brain metastases: a multicenter study.** *NPJ digital medicine*  
Grøvik, E. n., Yi, D. n., Iv, M. n., Tong, E. n., Nilsen, L. B., Latysheva, A. n., Saxhaug, C. n., Jacobsen, K. D., Helland, Å. n., Emblem, K. E., Rubin, D. L., Zaharchuk, G. n.  
2021; 4 (1): 33
- **Neuroimaging in the Era of the Evolving WHO Classification of Brain Tumors, From the AJR Special Series on Cancer Staging.** *AJR. American journal of roentgenology*  
Iv, M. n., Bisdas, S. n.  
2021
- **Brain Iron Assessment after Ferumoxytol-enhanced MRI in Children and Young Adults with Arteriovenous Malformations: A Case-Control Study.** *Radiology*

- Iv, M. n., Ng, N. N., Nair, S. n., Zhang, Y. n., Lavezo, J. n., Cheshier, S. H., Holdsworth, S. J., Moseley, M. E., Rosenberg, J. n., Grant, G. A., Yeom, K. W.  
2020: 200378
- **Deep Learning Enables Automatic Detection and Segmentation of Brain Metastases on Multisequence MRI** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Grovik, E., Yi, D., Iv, M., Tong, E., Rubin, D., Zaharchuk, G.  
2020; 51 (1): 175–82
  - **Advanced Imaging of Brain Metastases: From Augmenting Visualization and Improving Diagnosis to Evaluating Treatment Response.** *Frontiers in neurology*  
Tong, E. n., McCullagh, K. L., Iv, M. n.  
2020; 11: 270
  - **Arterial Spin-Labeling MRI Identifies Hypervascular Meningiomas.** *AJR. American journal of roentgenology*  
Mayercik, V. n., Ma, M. n., Holdsworth, S. n., Heit, J. n., Iv, M. n.  
2019: 1–5
  - **Perfusion MRI-Based Fractional Tumor Burden Differentiates between Tumor and Treatment Effect in Recurrent Glioblastomas and Informs Clinical Decision-Making.** *AJNR. American journal of neuroradiology*  
Iv, M. n., Liu, X. n., Lavezo, J. n., Gentles, A. J., Ghanem, R. n., Lummus, S. n., Born, D. E., Soltys, S. G., Nagpal, S. n., Thomas, R. n., Recht, L. n., Fischbein, N. n.  
2019
  - **MR Imaging-Based Radiomic Signatures of Distinct Molecular Subgroups of Medulloblastoma.** *AJNR. American journal of neuroradiology*  
Iv, M., Zhou, M., Shpanskaya, K., Perreault, S., Wang, Z., Tranvinh, E., Lanzman, B., Vajapeyam, S., Vitanza, N. A., Fisher, P. G., Cho, Y. J., Laughlin, S., Ramaswamy, et al  
2018
  - **Evaluation of Thick-Slab Overlapping MIP Images of Contrast-Enhanced 3D T1-Weighted CUBE for Detection of Intracranial Metastases: A Pilot Study for Comparison of Lesion Detection, Interpretation Time, and Sensitivity with Nonoverlapping CUBE MIP, CUBE, and Inversion-Recovery-Prepared Fast-Spoiled Gradient Recalled Brain Volume.** *AJNR. American journal of neuroradiology*  
Yoon, B. C., Saad, A. F., Rezaei, P., Wintermark, M., Zaharchuk, G., Iv, M.  
2018
  - **Current Clinical State of Advanced Magnetic Resonance Imaging for Brain Tumor Diagnosis and Follow Up.** *Seminars in roentgenology*  
Iv, M. n., Yoon, B. C., Heit, J. J., Fischbein, N. n., Wintermark, M. n.  
2018; 53 (1): 45–61
  - **Quantification of Macrophages in High-Grade Gliomas by Using Ferumoxytol-enhanced MRI: A Pilot Study.** *Radiology*  
Iv, M. n., Samghabadi, P. n., Holdsworth, S. n., Gentles, A. n., Rezaei, P. n., Harsh, G. n., Li, G. n., Thomas, R. n., Moseley, M. n., Daldrup-Link, H. E., Vogel, H. n., Wintermark, M. n., Cheshier, et al  
2018: 181204
  - **Radiomics in Brain Tumor: Image Assessment, Quantitative Feature Descriptors, and Machine-Learning Approaches.** *AJNR. American journal of neuroradiology*  
Zhou, M. n., Scott, J. n., Chaudhury, B. n., Hall, L. n., Goldgof, D. n., Yeom, K. W., Iv, M. n., Ou, Y. n., Kalpathy-Cramer, J. n., Napel, S. n., Gillies, R. n., Gevaert, O. n., Gatenby, et al  
2017
  - **Clinical applications of iron oxide nanoparticles for magnetic resonance imaging of brain tumors** *NANOMEDICINE*  
Iv, M., Telischak, N., Feng, D., Holdsworth, S. J., Yeom, K. W., Daldrup-Link, H. E.  
2015; 10 (6): 993-1018
  - **Diffusion weighted imaging-based tumor growth rate for predicting long-term survival in nasopharyngeal carcinoma.** *Cancer imaging : the official publication of the International Cancer Imaging Society*  
Yang, F., Zhang, Y., Iv, M., Wei, H., Wang, S., Li, X., Yu, X., Li, L., Zhao, Y., Xie, L., Luo, D., Lin, M., Zhang, et al  
2026
  - **Differentiation of MPNSTs from benign neurofibromas in neurofibromatosis patients using ADC and SUV biomarkers in children and young adults.** *Current problems in diagnostic radiology*  
Shokri Varniab, Z., Lokesh, Y. U., Qi, J., Wong, J., Iv, M., Hawk, E., Daldrup-Link, H.

2026

- **Artificial Intelligence Outperforms Radiologists in Detecting Aneurysm Growth**  
Snyder, S., Rhodes, S., Iv, M., Pulli, B., Telischak, N., Do, H., Dodd, R., Heit, J.  
LIPPINCOTT WILLIAMS & WILKINS.2026
- **SINGLE-CELL LANDSCAPE OF B7H3-CAR T THERAPY IN GLIOMA: MECHANISMS OF RESISTANCE AND SIGNATURES OF LONG-TERM RESPONSE**  
Chen, Y., Song, K., Desai, M., Ehlinger, Z., Daghigh, H., Rietberg, S., Feeney, A., Tanner, K., Dyson, K., Stockdale, B., Dhapola, G., Lohman, C., Patil, et al  
OXFORD UNIV PRESS INC.2025: v13
- **PNOC025: A phase 1 study assessing the safety and tolerability of magrolimab in children and adults with recurrent or progressive malignant brain tumors**  
Whipple, N., Molinaro, A., Reddy, A., Jaeger-Krause, M., Iv, M., Villanueva-Meyer, J., Lupo, J., Cooney, T., Raber, S., Hoffman, C., Jensen, J., Prados, M., Gartrell, et al  
OXFORD UNIV PRESS INC.2025: v149-v150
- **LAT1 EXPRESSION SCALE AND ADAPTIVE DESIGN FOR A PHASE IIA TRIAL OF QBS72S IN BREAST CANCER BRAIN METASTASES**  
Taiwo, R., Harary, P. M., Trinh, T. T. H., Granucci, M., Bertrand, S., Carlson-Clarke, B., Chernikova, S. B., Therkelsen, K., Arora, M., Melisko, M. E., Iv, M., Vogel, H., Han, et al  
OXFORD UNIV PRESS INC.2025: v143-v144
- **Real-world use of IDH inhibitors in a Broad IDH-mutant Glioma Population**  
Louis, S., Cao, T., Solomon, D., Iv, M., Nagpal, S.  
OXFORD UNIV PRESS INC.2025: v336
- **EVALUATION OF B7-H3 IMMUNOHISTOCHEMISTRY IN HIGH-GRADE GLIOMAS FOR CHIMERIC ANTIGEN RECEPTOR T-CELL PREDICTIVE TESTING**  
Dyson, K., Zuraski, C., Solomon, D., Li, G., Stocksdale, B., Song, K., Mahdi, J., Tanner, K., Bertrand, S., Iv, M., Threlkeld, Z., Ramakrishna, S., Sahaf, et al  
OXFORD UNIV PRESS INC.2025: v49-v50
- **Automated real-time assessment of intracranial hemorrhage detection AI using an ensembled monitoring model (EMM). *NPJ digital medicine***  
Fang, Z., Johnston, A., Cheuy, L. Y., Na, H. S., Paschali, M., Gonzalez, C., Armstrong, B. A., Koirala, A., Laurel, D., Champion, A. W., Iv, M., Chaudhari, A. S., Larson, et al  
2025; 8 (1): 608
- **Adaptive cohort design and LAT1 expression scale: study protocol for a Phase 2a trial of QBS72S in breast cancer brain metastases. *BMC cancer***  
Taiwo, R., Harary, P. M., Trinh, T. T., Granucci, M., Bertrand, S., Carlson-Clarke, B., Chernikova, S. B., Therkelsen, K., Arora, M., Melisko, M. E., Iv, M., Vogel, H., Han, et al  
2025; 25 (1): 1316
- **Brain tumor segmentation using deep learning: high performance with minimized MRI data. *Frontiers in radiology***  
Huang, J., Yagmurlu, B., Molleti, P., Lee, R., Vanderploeg, A., Noor, H., Bareja, R., Li, Y., Iv, M., Itakura, H.  
2025; 5: 1616293
- **Network-targeted transcranial magnetic stimulation (TMS) for mild cognitive impairment (MCI). *NeuroImage. Clinical***  
Taylor, J. L., Bhatt, P., Hernandez, B., Iv, M., Adamson, M. M., Heath, A., Yesavage, J. A., McNerney, M. W.  
2025; 47: 103819
- **A phase 1 study of B7H3 CAR-T cells administered intracranially in recurrent glioblastoma.**  
Li, G., Stocksdale, B. R., Song, K., Mahdi, J., Tanner, K., Bertrand, S., Iv, M., Threlkeld, Z., Ramakrishna, S., Sahaf, B., Egeler, E., Charu, V., Tunuguntla, et al  
LIPPINCOTT WILLIAMS & WILKINS.2025: 2018
- **Automated Real-time Assessment of Intracranial Hemorrhage Detection AI Using an Ensembled Monitoring Model (EMM). *Research square***  
Fang, Z., Johnston, A., Cheuy, L., Na, H. S., Paschali, M., Gonzalez, C., Armstrong, B. A., Koirala, A., Laurel, D., Champion, A. W., Iv, M., Chaudhari, A. S., Larson, et al  
2025

- **Neuroimaging evaluation of high dose methotrexate-induced neurotoxicity in pediatric and young adults: a PET/MRI study.** *Frontiers in neuroimaging*  
Shokri Varniab, Z., Kim, H. G., von Krüchten, R., Lokesh, Y. U., Hawk, K. E., Singh, S. B., Liang, T., Lu-Liang, S., Baratto, L., Iv, M., Daldrup-Link, H. E.  
2025; 4: 1659480
- **DUNE: a versatile neuroimaging encoder captures brain complexity across 3 major diseases: cancer, dementia, and schizophrenia.** *GigaScience*  
Barba, T., Bagley, B. A., Steyaert, S., Carrillo-Perez, F., Sadée, C., Iv, M., Gevaert, O.  
2025; 14
- **Robust, fully-automated assessment of cerebral perivascular spaces and white matter lesions: a multicentre MRI longitudinal study of their evolution and association with risk of dementia and accelerated brain atrophy.** *EBioMedicine*  
Barisano, G., Iv, M., Choupan, J., Hayden-Gephart, M.  
2024; 111: 105523
- **Impact of MS Imaging Analytics on MRI Report Findings**  
Faust, F., Leyden, K., Tong, E., Iv, M., Siebenborn, N. S., Granziera, C.  
SAGE PUBLICATIONS LTD.2024: 285
- **Advancing presurgical non-invasive molecular subgroup prediction in medulloblastoma using artificial intelligence and MRI signatures.** *Cancer cell*  
Wang, Y. J., Wang, P., Yan, Z., Zhou, Q., Gunturkun, F., Li, P., Hu, Y., Wu, W. E., Zhao, K., Zhang, M., Lv, H., Fu, L., Jin, et al  
2024
- **The Brain Tumor Segmentation (BraTS-METS) Challenge 2023: Brain Metastasis Segmentation on Pre-treatment MRI.** *ArXiv*  
Moawad, A. W., Janas, A., Baid, U., Ramakrishnan, D., Saluja, R., Ashraf, N., Jekel, L., Amiruddin, R., Adewole, M., Albrecht, J., Anazodo, U., Aneja, S., Anwar, et al  
2024
- **A phase II study of plerixafor combined with whole brain radiation therapy (WBRT) for patients with newly diagnosed glioblastoma**  
Cao, T., Gu, Y., Yagmurlu, B., Yerraballa, H., Bertrand, S., Naya, L., Miller, K., Iv, M., Soltys, S. G., Patel, C. B., Nagpal, S., Thomas, R., Brown, et al  
LIPPINCOTT WILLIAMS & WILKINS.2024
- **Quantification of cerebrospinal fluid tumor DNA in lung cancer patients with suspected leptomeningeal carcinomatosis.** *NPJ precision oncology*  
Azad, T. D., Nanjo, S., Jin, M. C., Chabon, J. J., Kurtz, D. M., Chaudhuri, A. A., Connolly, I. D., Hui, A. B., Liu, C. L., Merriott, D., Ko, R., Yoo, C., Carter, et al  
2024; 8 (1): 121
- **Cerebral perivascular spaces as predictors of dementia risk and accelerated brain atrophy.** *medRxiv : the preprint server for health sciences*  
Barisano, G., Iv, M., Choupan, J., Hayden-Gephart, M.  
2024
- **Detecting High-Dose Methotrexate-Induced Brain Changes in Pediatric and Young Adult Cancer Survivors Using [18F]FDG PET/MRI: A Pilot Study.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Baratto, L., Singh, S. B., Williams, S. E., Spunt, S. L., Rosenberg, J., Adams, L., Suryadevara, V., Iv, M., Daldrup-Link, H.  
2024
- **A rare non-gadolinium enhancing sarcoma brain metastasis with microenvironment dominated by tumor-associated macrophages.** *Acta neuropathologica communications*  
Rogawski, D., Wheeler, J., Nie, E., Zhu, W., Villanueva, E., Coffey, G., Ma, Q., Ganjoo, K., Fischbein, N., Iv, M., Vogel, H., Nagpal, S.  
2024; 12 (1): 15
- **Belzutifan Reduction of Cerebral Blood Flow in VHL-Associated Hemangioblastoma Predicts Response to Treatment.**  
Persad, A. R., Yagmurlu, A. B., Park, D. J., Zamarud, A., Huang, Y., Hori, Y. S., Chang, S. D., Iv, M.  
2024
- **Investigating the value of radiomics stemming from DSC quantitative biomarkers in IDH mutation prediction in gliomas.** *Frontiers in neurology*  
Ioannidis, G. S., Pigott, L. E., Iv, M., Surlan-Popovic, K., Wintermark, M., Bisdas, S., Marias, K.

2023; 14: 1249452

- **Disagreement Among Neuroradiologists Detecting Change in Multiple Sclerosis Disease Activity**  
Leyden, K., Bajus, L., Iv, M., Tong, E., Siebenborn, N. S., Granziera, C.  
SAGE PUBLICATIONS LTD.2023: 257-258
- **Erratum: "MRI pulse sequence integration for deep-learning-based brain metastases segmentation". *Medical physics***  
Yi, D., Grøvik, E., Tong, E., Iv, M., Emblem, K. E., Nilsen, L. B., Saxhaug, C., Latysheva, A., Jacobsen, K. D., Helland, Å., Zaharchuk, G., Rubin, D.  
2023; 50 (8): 5294
- **Generative Editing via Convolutional Obscuring (GECO): A Generative Adversarial Network for MRI de-artifacting**  
Bagley, B., Petrov, S., Cheng, G., Armanasu, M., Fischbein, N., Jiang, B., Iv, M., Tranvinh, E., Zeineh, M., Gevaert, O.  
LIPPINCOTT WILLIAMS & WILKINS.2023
- **Correction: Macrophage Exclusion after Radiation Therapy (MERT): A First-in-Human Phase I/II Trial using a CXCR4 Inhibitor in Glioblastoma. *Clinical cancer research : an official journal of the American Association for Cancer Research***  
Thomas, R. P., Nagpal, S., Iv, M., Soltys, S. G., Bertrand, S., Pelpola, J. S., Ball, R., Yang, J., Sundaram, V., Chernikova, S. B., Lavezo, J., Born, D., Vogel, et al  
2023; 29 (2): 502
- **Deep learning-based brain tumor segmentation on limited sequences of magnetic resonance imaging**  
Huang, J., Molleti, P., Iv, M., Lee, R., Itakura, H.  
LIPPINCOTT WILLIAMS & WILKINS.2022
- **Retinal artery and vein occlusion in calciphylaxis. *American journal of ophthalmology case reports***  
Naranjo, A., Rayess, N., Ryan, E., Iv, M., Mahajan, V. B.  
2022; 26: 101433
- **2.5D and 3D segmentation of brain metastases with deep learning on multinational MRI data. *Frontiers in neuroinformatics***  
Ottesen, J. A., Yi, D., Tong, E., Iv, M., Latysheva, A., Saxhaug, C., Jacobsen, K. D., Helland, Å., Emblem, K. E., Rubin, D. L., Bjørnerud, A., Zaharchuk, G., Grøvik, et al  
2022; 16: 1056068
- **Neuroradiology Q&A for the Radiology Boards**  
Iv, M.  
Thieme.2022
- **EGFR-targeted intraoperative fluorescence imaging detects high-grade glioma with panitumumab-IRDye800 in a phase 1 clinical trial. *Theranostics***  
Zhou, Q., van den Berg, N. S., Rosenthal, E. L., Iv, M., Zhang, M., Vega Leonel, J. C., Walters, S., Nishio, N., Granucci, M., Raymundo, R., Yi, G., Vogel, H., Cayrol, et al  
2021; 11 (15): 7130-7143
- **Imaging Chemotherapy-Induced Brain Damage in Pediatric Cancer Survivors**  
Baratto, L., Garcia, D., Rashidi, A., Iv, M., Hawk, K., Daldrup-Link, H.  
SOC NUCLEAR MEDICINE INC.2021
- **Management of brain tumors presenting in pregnancy: a case series and systematic review. *American journal of obstetrics & gynecology MFM***  
Rodrigues, A. J., Waldrop, A. R., Suharwardy, S., Druzin, M. L., Iv, M., Ansari, J. R., Stone, S. A., Jaffe, R. A., Jin, M. C., Li, G., Hayden-Gephart, M.  
2021; 3 (1): 100256
- **How to stop using gadolinium chelates for magnetic resonance imaging: clinical-translational experiences with ferumoxytol. *Pediatric radiology***  
Daldrup-Link, H. E., Theruvath, A. J., Rashidi, A., Iv, M., Majzner, R. G., Spunt, S. L., Goodman, S., Moseley, M.  
2021
- **MRI pulse sequence integration for deep-learning-based brain metastases segmentation. *Medical physics***  
Yi, D., Grøvik, E., Tong, E., Iv, M., Emblem, K. E., Nilsen, L. B., Saxhaug, C., Latysheva, A., Jacobsen, K. D., Helland, Å., Zaharchuk, G., Rubin, D.  
2021
- **Multicenter DSC-MRI-Based Radiomics Predict IDH Mutation in Gliomas. *Cancers***

- Manikis, G. C., Ioannidis, G. S., Siakallis, L., Nikiforaki, K., Iv, M., Vozlic, D., Surlan-Popovic, K., Wintermark, M., Bisdas, S., Marias, K. 2021; 13 (16)
- **Development and Validation of Operator Independent Measurements of Optic Nerve Sheath Cerebral Spinal Fluid Volume from MRI**  
Wasi, M., Iv, M., Wasi, T., Moss, H.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
  - **Phase I study of BPM31510 and vitamin K in patients with high grade glioma recurrent after a bevacizumab-containing regimen.**  
Nagpal, S., Thomas, R., Bertrand, S., Yerraballa, H., Iv, M., Li, G., Klotz, A., Kiebish, M. A., Narain, N. R., Sarangarajan, R., Granger, E., Recht, L.  
AMER SOC CLINICAL ONCOLOGY.2020
  - **Arterial-spin labeling MRI identifies residual cerebral arteriovenous malformation following stereotactic radiosurgery treatment** *JOURNAL OF NEURORADIOLOGY*  
Heit, J. J., Thakur, N. H., Iv, M., Fischbein, N. J., Wintermark, M., Dodd, R. L., Steinberg, G. K., Chang, S. D., Kapadia, K. B., Zaharchuk, G.  
2020; 47 (1): 13–19
  - **Deep Learning for Pediatric Posterior Fossa Tumor Detection and Classification: A Multi-Institutional Study.** *AJNR. American journal of neuroradiology*  
Quon, J. L., Bala, W. n., Chen, L. C., Wright, J. n., Kim, L. H., Han, M. n., Shpanskaya, K. n., Lee, E. H., Tong, E. n., Iv, M. n., Seekins, J. n., Lungren, M. P., Braun, et al  
2020
  - **Brain iron deposition after Ferumoxytol-enhanced MRI: A study of Porcine Brains.** *Nanotheranostics*  
Theruvath, A. J., Aghighi, M. n., Iv, M. n., Nejadnik, H. n., Lavezo, J. n., Pisani, L. J., Daldrup-Link, H. E.  
2020; 4 (4): 195–200
  - **Utilization of Novel High-Resolution, MRI-Based Vascular Imaging Modality for Preoperative Stereoelectroencephalography Planning in Children: A Technical Note.** *Stereotactic and functional neurosurgery*  
Feng, A. Y., Ho, A. L., Kim, L. H., Sussman, E. S., Pendharkar, A. V., Iv, M. n., Yeom, K. W., Halpern, C. H., Grant, G. A.  
2020: 1–7
  - **Critical illness-associated cerebral microbleeds in severe COVID-19 infection.** *Clinical imaging*  
Gupta, N. A., Lien, C. n., Iv, M. n.  
2020; 68: 239–41
  - **Cerebrospinal Fluid Metals and the Association with Cerebral Small Vessel Disease.** *Journal of Alzheimer's disease : JAD*  
Shams, M. n., Martola, J. n., Charidimou, A. n., Granberg, T. n., Ferreira, D. n., Westman, E. n., Wintermark, M. n., Iv, M. n., Larvie, M. n., Kristoffersen Wiberg, M. n., Kaijser, M. n., Forsgard, N. n., Zetterberg, et al  
2020
  - **Simultaneous time of flight-MRA and T2\* imaging for cerebrovascular MRI.** *Neuroradiology*  
Lanzman, B. A., Huang, Y. n., Lee, E. H., Iv, M. n., Moseley, M. E., Holdsworth, S. J., Yeom, K. W.  
2020
  - **Variable Refocusing Flip Angle Single-Shot Imaging for Sedation-Free Fast Brain MRI.** *AJNR. American journal of neuroradiology*  
Jabarkheel, R. n., Tong, E. n., Lee, E. H., Cullen, T. M., Yousaf, U. n., Loening, A. M., Taviani, V. n., Iv, M. n., Grant, G. A., Holdsworth, S. J., Vasanawala, S. S., Yeom, K. W.  
2020
  - **A PHASE 1 STUDY OF BPM31510 PLUS VITAMIN K IN SUBJECTS WITH HIGH-GRADE GLIOMA THAT HAS RECURRENT ON A BEVACIZUMAB-CONTAINING REGIMEN**  
Recht, L., Thomas, R., Bertrand, S., Yerballa, P., Li, G., Iv, M., Narain, N., Sarangarajan, R., Granger, E., Nagpal, S.  
OXFORD UNIV PRESS INC.2019: 27
  - **Patient-specific 3-dimensionally printed models for neurosurgical planning and education.** *Neurosurgical focus*  
Panesar, S. S., Magnetta, M. n., Mukherjee, D. n., Abhinav, K. n., Branstetter, B. F., Gardner, P. A., Iv, M. n., Fernandez-Miranda, J. C.  
2019; 47 (6): E12
  - **Glioblastoma: State-of-the-Art Clinical Neuroimaging**  
edited by Iv, M., Wintermark, M., Massoud, T. F.  
Nova Science Pub Inc.2019; 2

- **The effects of repetitive transcranial magnetic stimulation in older adults with mild cognitive impairment: a protocol for a randomized, controlled three-arm trial.** *BMC neurology*  
Taylor, J. L., Hambro, B. C., Strossman, N. D., Bhatt, P. n., Hernandez, B. n., Ashford, J. W., Cheng, J. J., Iv, M. n., Adamson, M. M., Lazzeroni, L. C., McNeerney, M. W.  
2019; 19 (1): 326
- **Malignant optic glioma masked by suspected optic neuritis and central retinal vein occlusion.** *Radiology case reports*  
Kalnins, A. n., Penta, M. n., El-Sawy, T. n., Liao, Y. J., Fischbein, N. n., Iv, M. n.  
2019; 14 (2): 226–29
- **Non-Contrast T2-Weighted MR Sequences for Long Term Monitoring of Asymptomatic Convexity Meningiomas.** *World neurosurgery*  
He, J. Q., Iv, M. n., Li, G. n., Zhang, M. n., Hayden-Gephart, M. n.  
2019
- **Nodular Leptomeningeal Disease - A Distinct Pattern of Recurrence After Post-Resection Stereotactic Radiosurgery for Brain Metastases: A Multi-Institutional Study of Inter-Observer Reliability.** *International journal of radiation oncology, biology, physics*  
Turner, B. E., Prabhu, R. S., Burri, S. H., Brown, P. D., Pollom, E. L., Milano, M. T., Weiss, S. E., Iv, M. n., Fischbein, N. n., Soliman, H. n., Lo, S. S., Chao, S. T., Cox, et al  
2019
- **Ferumoxytol-enhanced MRI for surveillance of pediatric cerebral arteriovenous malformations.** *Journal of neurosurgery. Pediatrics*  
Huang, Y. n., Singer, T. G., Iv, M. n., Lanzman, B. n., Nair, S. n., Stadler, J. A., Wang, J. n., Edwards, M. S., Grant, G. A., Cheshier, S. H., Yeom, K. W.  
2019: 1–8
- **Macrophage Exclusion after Radiation Therapy (MERT): A First in Human Phase I/II Trial using a CXCR4 Inhibitor in Glioblastoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Thomas, R. P., Nagpal, S. n., Iv, M. n., Soltys, S. G., Bertrand, S. n., Pelpola, J. S., Ball, R. L., Yang, J. n., Sundaram, V. n., Lavezo, J. L., Born, D. E., Vogel, H. n., Brown, et al  
2019
- **Utility of a Quantitative Approach Using Diffusion Tensor Imaging for Prognostication Regarding Motor and Functional Outcomes in Patients With Surgically Resected Deep Intracranial Cavernous Malformations.** *Neurosurgery*  
Abhinav, K. n., Nielsen, T. H., Singh, R. n., Weng, Y. n., Han, S. S., Iv, M. n., Steinberg, G. K.  
2019
- **Altered cerebral perfusion in children with Langerhans cell histiocytosis after chemotherapy.** *Pediatric blood & cancer*  
Han, M. n., Kim, L. H., Shpanskaya, K. n., Kim, C. n., Iv, M. n., Jeng, M. n., Yeom, K. W.  
2019: e28104
- **Physiological motion of the optic chiasm and its impact on stereotactic radiosurgery dose.** *The British journal of radiology*  
Xiang, M. n., Chan, C. n., Wang, L. n., Jani, K. n., Holdsworth, S. J., Iv, M. n., Pollom, E. n., Soltys, S. n.  
2019: 20190170
- **Pediatric Stroke Imaging** *PEDIATRIC NEUROLOGY*  
Khalaf, A., Iv, M., Fullerton, H., Wintermark, M.  
2018; 86: 5–18
- **Conus Medullaris Dural Arteriovenous Fistula Arising From the Artery of the Filum Terminale: 2-Dimensional Operative Video.** *Operative neurosurgery (Hagerstown, Md.)*  
Lamsam, L. n., Quon, J. n., Fischbein, N. n., Iv, M. n., Dodd, R. n., Ratliff, J. n.  
2018
- **Practical Pearl: Use of MRI to Differentiate Pseudo-subarachnoid Hemorrhage from True Subarachnoid Hemorrhage.** *Neurocritical care*  
Ho, A. L., Sussman, E. S., Pendharkar, A. V., Iv, M. n., Hirsch, K. G., Fischbein, N. J., Dodd, R. L.  
2018
- **Lobular capillary hemangioma of the mandible: A case report.** *Clinical imaging*  
Chan, C. n., Iv, M. n., Fischbein, N. n., Dahmouh, H. n.  
2018; 50: 246–49

- **High-resolution 3D volumetric contrast-enhanced MR angiography with a blood pool agent (ferumoxytol) for diagnostic evaluation of pediatric brain arteriovenous malformations.** *Journal of neurosurgery. Pediatrics*  
Iv, M. n., Choudhri, O. n., Dodd, R. L., Vasanawala, S. S., Alley, M. T., Moseley, M. n., Holdsworth, S. J., Grant, G. n., Cheshier, S. n., Yeom, K. W.  
2018: 1–10
- **Can diffusion- and perfusion-weighted imaging alone accurately triage anterior circulation acute ischemic stroke patients to endovascular therapy?** *Journal of neurointerventional surgery*  
Wolman, D. N., Iv, M. n., Wintermark, M. n., Zaharchuk, G. n., Marks, M. P., Do, H. M., Dodd, R. L., Albers, G. W., Lansberg, M. G., Heit, J. J.  
2018
- **CORRELATION OF VASARI-BASED MRI PHENOTYPES WITH MGMT AND IDH STATUS ACROSS GLIOMA GRADES: A STATISTICAL ANALYSIS IN 372 PATIENTS**  
Das, D., Yoon, B., Golden, L., Samghabadi, P., Vogel, H., Yeom, K., Iv, M., Massoud, T.  
OXFORD UNIV PRESS INC.2017: 150
- **THE EFFECT OF PATIENT AGE AT GLIOMA PRESENTATION ON MRI PHENOTYPE: A COMPREHENSIVE ANALYSIS OF VASARI-BASED FEATURE-SET CRITERIA IN 711 PATIENTS**  
Das, D., Yoon, B., Golden, L., Samghabadi, P., Vogel, H., Yeom, K., Iv, M., Massoud, T.  
OXFORD UNIV PRESS INC.2017: 158
- **Tumefactive demyelination associated with developmental venous anomaly: Report of two cases** *CLINICAL IMAGING*  
Ma, M., Chen, J. Y., Plowey, E. D., Fischbein, N., Iv, M.  
2017; 43: 194-198
- **Resting-State BOLD MRI for Perfusion and Ischemia.** *Topics in magnetic resonance imaging*  
Kroll, H., Zaharchuk, G., Christen, T., Heit, J. J., Iv, M.  
2017; 26 (2): 91-96
- **Imaging of Intracranial Hemorrhage.** *Journal of stroke*  
Heit, J. J., Iv, M., Wintermark, M.  
2017; 19 (1): 11-27
- **Reducing Functional MR Imaging Acquisition Times by Optimizing Workflow** *RADIOGRAPHICS*  
Chwang, W. B., Iv, M., Smith, J., Kalnins, A., Mickelsen, J., Bammer, R., Fleischmann, D., Larson, D. B., Wintermark, M., Zeineh, M.  
2017; 37 (1): 315-321
- **Clinical and Arterial Spin Labeling Brain MRI Features of Transitional Venous Anomalies.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*  
Zhang, M. n., Telischak, N. A., Fischbein, N. J., Steinberg, G. K., Marks, M. n., Zaharchuk, G. n., Heit, J. J., Iv, M. n.  
2017
- **Magnetic resonance perfusion image features uncover an angiogenic subgroup of glioblastoma patients with poor survival and better response to antiangiogenic treatment.** *Neuro-oncology*  
Liu, T. T., Achrol, A. S., Mitchell, L. A., Rodriguez, S. A., Feroze, A., Kim, C., Chaudhary, N., Gevaert, O., Stuart, J. M., Harsh, G. R., Chang, S. D., Rubin, D. L.  
2016
- **Central Nervous System Perfusion Patterns in Childhood Langerhans Cell Histiocytosis**  
Yeom, K., Kim, C., Iv, M., Jeng, M.  
WILEY-BLACKWELL.2016: S36
- **Diffusion Tensor Imaging of TBI: Potentials and Challenges.** *Topics in magnetic resonance imaging*  
Douglas, D. B., Iv, M., Douglas, P. K., Anderson, A., Vos, S. B., Bammer, R., Zeineh, M., Wintermark, M.  
2015; 24 (5): 241-251
- **Intensity-Corrected Dual-Echo Echo-Planar Imaging (DE-EPI) for Improved Pediatric Brain Diffusion Imaging** *PLOS ONE*  
Yeom, K. W., Straka, M., Iv, M., Moseley, M. E., Barnes, P. D., Skare, S., Holdsworth, S. J.  
2015; 10 (6)
- **Congenital Brain Malformations in the Neonatal and Early Infancy Period** *SEMINARS IN ULTRASOUND CT AND MRI*  
Kim, C., Yeom, K. W., Iv, M.

2015; 36 (2): 97-119

- **Imaging Neck Masses in the Neonate and Young Infant** *SEMINARS IN ULTRASOUND CT AND MRI*  
Tranvinh, E., Yeom, K. W., Iv, M.  
2015; 36 (2): 120-137
- **Association of developmental venous anomalies with perfusion abnormalities on arterial spin labeling and bolus perfusion-weighted imaging.** *Journal of neuroimaging*  
Iv, M., Fischbein, N. J., Zaharchuk, G.  
2015; 25 (2): 243-250
- **Imaging Manifestations of Primary and Disseminated Coccidioidomycosis** *Applied Radiology*  
Gupta, N. A., Iv, M., Pandit, R. P., Patel, M. R.  
2015; 44 (2): 9-21
- **Prolonged survival of patients with non-small-cell lung cancer with leptomeningeal carcinomatosis in the modern treatment era.** *Clinical lung cancer*  
Riess, J. W., Nagpal, S., Iv, M., Zeineh, M., Gubens, M. A., Ramchandran, K., Neal, J. W., Wakelee, H. A.  
2014; 15 (3): 202-206
- **Imaging Spectrum of CNS Coccidioidomycosis: Prevalence and Significance of Concurrent Brain and Spinal Disease** *AMERICAN JOURNAL OF ROENTGENOLOGY*  
Lammering, J. C., Iv, M., Gupta, N., Pandit, R., Patel, M. R.  
2013; 200 (6): 1334-1346
- **Comparison of Readout-Segmented Echo-Planar Imaging (EPI) and Single-Shot EPI in Clinical Application of Diffusion-Weighted Imaging of the Pediatric Brain.** *AJR. American journal of roentgenology*  
Yeom, K. W., Holdsworth, S. J., Van, A. T., Iv, M., Skare, S., Lober, R. M., Bammer, R.  
2013; 200 (5): W437-43
- **Informatics in Radiology Use of a Macro Scripting Editor to Facilitate Transfer of Dual-Energy X-ray Absorptiometry Reports into an Existing Departmental Voice Recognition Dictation System** *RADIOGRAPHICS*  
Iv, M., Patel, M. R., Santos, A., Kang, Y. S.  
2011; 31 (4): 1181-1189
- **Left ventricular ejection fraction using 64-slice CT coronary angiography and new evaluation software: initial experience** *BRITISH JOURNAL OF RADIOLOGY*  
Krishnam, M. S., Tomasian, A., Iv, M., Ruehm, S. G., Salieh, R., Panknin, C., Goldin, J. G.  
2008; 81 (966): 450-455
- **Cardiac hemangioma: Features on cardiovascular magnetic resonance** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*  
Tomasian, A., Iv, M., Lai, C., Jalili, M., Krishnam, M. S.  
2007; 9 (6): 873-876
- **Pyridines in cigarette smoke inhibit hamster oviductal functioning in picomolar doses** *REPRODUCTIVE TOXICOLOGY*  
Riveles, K., Iv, M., Arey, J., Talbot, P.  
2003; 17 (2): 191-202