

Stanford



Pejman Ghanouni, MD, PhD

Associate Professor of Radiology (General Radiology) and, by courtesy, of Neurosurgery, of Obstetrics and Gynecology and of Urology

CLINICAL OFFICE (PRIMARY)

- **Diagnostic Radiology**

300 Pasteur Dr Rm HG016 MC:5227

Stanford, CA 94305

Tel (510) 974-8416

Fax (650) 498-8933

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Barbara Bonini - Administrative Associate

Email bbonini@stanford.edu

Tel 650-736-6293

Bio

CLINICAL FOCUS

- Diagnostic Radiology

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Radiology
- Associate Professor - University Medical Line (By courtesy), Neurosurgery
- Associate Professor - University Medical Line (By courtesy), Urology
- Associate Professor - University Medical Line (By courtesy), Obstetrics & Gynecology

PROFESSIONAL EDUCATION

- Medical Education: Stanford University School of Medicine (2005) CA
- Fellowship: Stanford University Body Imaging Fellowship (2011) CA
- Residency: Stanford University Radiology Residency (2010) CA
- Internship: Santa Clara Valley Medical Center Dept of Medicine (2006) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (2010)

Research & Scholarship

CLINICAL TRIALS

- Study of Cryoablation and Nirogacestat for Desmoid Tumor, Recruiting
- 68Ga PSMA 11 PET/MRI and 68Ga RM2 PET/MRI for Biopsy Guidance in Patients With Suspected Prostate Cancer, Not Recruiting
- A Phase IV Post Approval Clinical Study of ExAblate Treatment of Metastatic Bone Tumors for the Palliation of Pain, Not Recruiting
- Continued Access Protocol: ExAblate Transcranial MR Guided Focused Ultrasound for the Treatment of Essential Tremors, Not Recruiting
- ExAblate (MRgFUS) Treatment of Metastatic Bone Tumors for the Palliation of Pain, Not Recruiting
- ExAblate Conformal Bone System Treatment of Metastatic Bone Tumors for the Palliation of Pain, Not Recruiting
- ExAblate Transcranial MR Guided Focused Ultrasound for the Treatment of Essential Tremors, Not Recruiting

- ExAblate Treatment of Metastatic Bone Tumors for the Palliation of Pain, Not Recruiting
- ExAblate UF V2 System for the Treatment of Symptomatic Uterine Fibroids, Not Recruiting
- Feasibility of ExAblate MRI Guided High Intensity Focused Ultrasound Tx of Soft Tissue Tumors, Not Recruiting
- Magnetic Resonance Guided High Intensity Focused Ultrasound in Advanced Pancreatic Adenocarcinoma Treatment, Not Recruiting
- MR Guided Focused Ultrasound vs Radiotherapy for Palliative Pain Tx in Bone Metastases, Not Recruiting
- MR Guided High Intensity Focused Ultrasound for Lumbar Back Pain, Not Recruiting

Teaching

COURSES

2023-24

- Introduction to Imaging and Image-based Human Anatomy: BIOE 220, BMP 220, RAD 220 (Win)

2022-23

- Introduction to Imaging and Image-based Human Anatomy: BIOE 220, BMP 220, RAD 220 (Win)

2021-22

- Introduction to Imaging and Image-based Human Anatomy: BIOE 220, RAD 220 (Win)

2020-21

- Introduction to Imaging and Image-based Human Anatomy: BIOE 220, RAD 220 (Win)

Publications

PUBLICATIONS

- **RAPHIA: A deep learning pipeline for the registration of MRI and whole-mount histopathology images of the prostate.** *Computers in biology and medicine*
Shao, W., Vesal, S., Soerensen, S. J., Bhattacharya, I., Golestani, N., Yamashita, R., Kunder, C. A., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, M.
2024; 173: 108318
- **MR Imaging-Guided Prostate Cancer Therapies.** *Radiologic clinics of North America*
Adamo, D. A., Greenwood, B. M., Ghanouni, P., Arora, S.
2024; 62 (1): 121-133
- **ArtHiFy: Artificial Histopathology-style Features for Improving MRI-Based Prostate Cancer Detection**
Bhattacharya, I., Shao, W., Li, X., Soerensen, S. C., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, M., Chen, W., Astley, S. M.
SPIE-INT SOC OPTICAL ENGINEERING.2024
- **High-Intensity Focused Ultrasound Surgery for Tumor Ablation: A Review of Current Applications.** *Radiology. Imaging cancer*
De Maio, A., Alfieri, G., Mattone, M., Ghanouni, P., Napoli, A.
2024; 6 (1): e230074
- **MR-guided focused ultrasound therapy of extra-abdominal desmoid tumors: a multicenter retrospective study of 105 patients.** *European radiology*
Düx, D. M., Baal, J. D., Bitton, R., Chen, J., Brunsing, R. L., Sheth, V. R., Rosenberg, J., Kim, K., Ozhinsky, E., Avedian, R., Ganjoo, K., Bucknor, M., Dobrotwir, et al
2023
- **What predicts durable symptom relief of uterine fibroids treated with MRI-guided focused ultrasound? A multicenter trial in 8 academic centers.** *European radiology*
Bitton, R. R., Fast, A., Vu, K. N., Lum, D. A., Chen, B., Hesley, G. K., Raman, S. S., Matsumoto, A. H., Price, T. M., Tempany, C., Dhawan, N., Dolen, E., Kohi, et al
2023
- **Immunoglobulin G4-Seronegative Autoimmune Cholangiopathy With Pancreatic and Hepatic Involvement Mimicking as Primary Sclerosing Cholangitis.** *ACG case reports journal*

- Achalu, S., Berry, R., Wei, M. T., Banerjee, S., Ghanouni, P., Kambham, N., Kwo, P. Y.
2023; 10 (4): e01044
- **CT-guided Pulsed Radiofrequency Combined with Steroid Injection for Sciatica from Herniated Disk: A Randomized Trial.** *Radiology*
Napoli, A., Alfieri, G., De Maio, A., Panella, E., Scipione, R., Facchini, G., Albisinni, U., Spinnato, P., Nardis, P. G., Tramutoli, R., Lenzi, J., Ghanouni, P., Bazzocchi, et al
2023: 221478
 - **Trial of Globus Pallidus Focused Ultrasound Ablation in Parkinson's Disease.** *The New England journal of medicine*
Krishna, V., Fishman, P. S., Eisenberg, H. M., Kaplitt, M., Baltuch, G., Chang, J. W., Chang, W., Martinez Fernandez, R., Del Alamo, M., Halpern, C. H., Ghanouni, P., Eleopra, R., Cosgrove, et al
2023; 388 (8): 683-693
 - **Focused Ultrasound and External Beam Radiation Therapy for Painful Bone Metastases: A Phase II Clinical Trial.** *Radiology*
Napoli, A., De Maio, A., Alfieri, G., Gasperini, C., Scipione, R., Campanacci, L., Siepe, G., De Felice, F., Siniscalchi, B., Chiurchioni, L., Tombolini, V., Donati, D. M., Morganti, et al
2023: 211857
 - **A Pilot Study of 68Ga-PSMA11 and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Thong, A., Kunder, C., Mari Aparici, C., Davidzon, G. A., Moradi, F., Sonn, G. A., Iagaru, A.
2022
 - **The Association of Tissue Change and Treatment Success During High-intensity Focused Ultrasound Focal Therapy for Prostate Cancer.** *European urology focus*
Khandwala, Y. S., Soerensen, S. J., Morisetty, S., Ghanouni, P., Fan, R. E., Vesal, S., Rusu, M., Sonn, G. A.
2022
 - **A Pilot Study of 68Ga-PSMA11 and 68Ga-RM2 PET/MRI for Evaluation of Prostate Cancer Response to High Intensity Focused Ultrasound (HIFU) Therapy.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Davidzon, G. A., Mari Aparici, C., Kunder, C., Sonn, G., Iagaru, A.
2022
 - **A review of artificial intelligence in prostate cancer detection on imaging.** *Therapeutic advances in urology*
Bhattacharya, I., Khandwala, Y. S., Vesal, S., Shao, W., Yang, Q., Soerensen, S. J., Fan, R. E., Ghanouni, P., Kunder, C. A., Brooks, J. D., Hu, Y., Rusu, M., Sonn, et al
2022; 14: 17562872221128791
 - **Tempering optimism for MRI-guided focused ultrasound therapy - Authors' reply.** *The Lancet. Oncology*
Ehdaie, B., Sonn, G. A., Ghanouni, P.
2022; 23 (10): e439
 - **IgG4-Seronegative Autoimmune Cholangiopathy With Pancreatic and Hepatic Involvement Mimicking as Primary Sclerosing Cholangitis**
Achalu, S., Wei, M., Berry, R., Banerjee, S., Ghanouni, P., Kwo, P.
LIPPINCOTT WILLIAMS & WILKINS.2022: S1231
 - **Tempering optimism for MRI-guided focused ultrasound therapy Reply** *LANCET ONCOLOGY*
Ehdaie, B., Sonn, G. A., Ghanouni, P.
2022; 23 (10): E439
 - **Therapeutic US Applications for the Abdomen and Pelvis.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Sailer, A., Ghanouni, P., Schade, G. R., Napoli, A., Vidal-Jove, J., Raman, S. S., Mendiratta-Lala, M., Ghai, S., Abreu, A., Sundaram, K. M., Westphalen, A., Arora, S.
2022; 42 (6): E182-E183
 - **Evaluation of post-ablation mpMRI as a predictor of residual prostate cancer after focal high intensity focused ultrasound (HIFU) ablation.** *Urologic oncology*
Khandwala, Y. S., Morisetty, S., Ghanouni, P., Fan, R. E., Soerensen, S. J., Rusu, M., Sonn, G. A.
2022
 - **A Pilot Study of Ga-68-PSMA11 and 68Ga-RM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer**

- Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Thong, A., Sonn, G. A., Kunder, C., Davidzon, G. A., Aparici, C., Moradi, F., Iagaru, A.
SPRINGER.2022: S484
- **A Pilot Study of Ga-68-PSMA11 and Ga-68-RM2 PET/MRI for Evaluation of Prostate Cancer Response to High Intensity Focused Ultrasound (HIFU) Therapy**
Duan, H., Ghanouni, P., Daniel, B., Rosenberg, J., Davidzon, G. A., Aparici, C., Thong, A., Sonn, G. A., Kunder, C., Iagaru, A.
SPRINGER.2022: S497-S498
 - **Management of Patients with Newly Diagnosed Desmoid Tumors in a First-Line Setting.** *Cancers*
Testa, S., Bui, N. Q., Charville, G. W., Avedian, R. S., Steffner, R., Ghanouni, P., Mohler, D. G., Ganjoo, K. N.
2022; 14 (16)
 - **Magnetic resonance imaging-guided focused ultrasound thalamotomy for essential tremor: 5-year follow-up results.** *Journal of neurosurgery*
Cosgrove, G. R., Lipsman, N., Lozano, A. M., Chang, J. W., Halpern, C., Ghanouni, P., Eisenberg, H., Fishman, P., Taira, T., Schwartz, M. L., McDannold, N., Hayes, M., Ro, et al
2022: 1-6
 - **Comparison between MR and CT imaging used to correct for skull-induced phase aberrations during transcranial focused ultrasound.** *Scientific reports*
Leung, S. A., Moore, D., Gilbo, Y., Snell, J., Webb, T. D., Meyer, C. H., Miller, G. W., Ghanouni, P., Butts Pauly, K.
2022; 12 (1): 13407
 - **Improving Transcranial Acoustic Targeting: The Limits of CT Based Velocity Estimates and The Role of MR.** *IEEE transactions on ultrasonics, ferroelectrics, and frequency control*
Webb, T. D., Fu, F., Leung, S. A., Ghanouni, P., Dahl, J., Does, M. D., Pauly, K. B.
2022; PP
 - **MRI-guided focused ultrasound focal therapy for patients with intermediate-risk prostate cancer: a phase 2b, multicentre study.** *The Lancet. Oncology*
Ehdaie, B., Tempny, C. M., Holland, F., Sjoberg, D. D., Kibel, A. S., Trinh, Q., Durack, J. C., Akin, O., Vickers, A. J., Scardino, P. T., Sperling, D., Wong, J. Y., Yuh, et al
2022
 - **Changes In The Cerebello-thalamo-cortical Network After MR-guided Focused Ultrasound Thalamotomy.** *Brain connectivity*
Thaler, C., Tian, Q., Wintermark, M., Ghanouni, P., Halpern, C., Henderson, J., Airan, R., Zeineh, M., Goubran, M., Leuze, C., Fiehler, J., Butts Pauly, K., McNab, et al
2022
 - **Computational Detection of Extraprostatic Extension of Prostate Cancer on Multiparametric MRI Using Deep Learning.** *Cancers*
Moroianu, S. L., Bhattacharya, I., Seetharaman, A., Shao, W., Kunder, C. A., Sharma, A., Ghanouni, P., Fan, R. E., Sonn, G. A., Rusu, M.
2022; 14 (12)
 - **Bridging the gap between prostate radiology and pathology through machine learning.** *Medical physics*
Bhattacharya, I., Lim, D. S., Aung, H. L., Liu, X., Seetharaman, A., Kunder, C. A., Shao, W., Soerensen, S. J., Fan, R. E., Ghanouni, P., To'o, K. J., Brooks, J. D., Sonn, et al
2022
 - **Correlation of 68Ga-RM2 PET with Post-Surgery Histopathology Findings in Patients with Newly Diagnosed Intermediate- or High-Risk Prostate Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Duan, H., Baratto, L., Fan, R. E., Soerensen, S. J., Liang, T., Chung, B. I., Thong, A. E., Gill, H., Kunder, C., Stoyanova, T., Rusu, M., Loening, A. M., Ghanouni, et al
2022
 - **68Ga-PSMA-11 PET/MRI in patients with newly diagnosed intermediate or high-risk prostate adenocarcinoma: PET findings correlate with outcomes after definitive treatment.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Moradi, F., Duan, H., Song, H., Davidzon, G. A., Chung, B. I., Thong, A. E., Loening, A. M., Ghanouni, P., Sonn, G., Iagaru, A.
2022
 - **A Review of Imaging Methods to Assess Ultrasound-Mediated Ablation.** *BME frontiers*
Fite, B. Z., Wang, J., Ghanouni, P., Ferrara, K. W.
2022; 2022
 - **Current management and recent progress in desmoid tumors.** *Cancer treatment and research communications*

- Zhou, M. Y., Bui, N. Q., Charville, G. W., Ghanouni, P., Ganjoo, K. N.
2022; 31: 100562
- **Real-Time MRI-Guided Prostate Interventions.** *Cancers*
Masoom, S. N., Sundaram, K. M., Ghanouni, P., Futterer, J., Oto, A., Ayyagari, R., Sprenkle, P., Weinreb, J., Arora, S.
2022; 14 (8)
 - **Confirmation of Ectopic Pancreatic Tissue: A Novel Use for 18F-Fluciclovine PET.** *Clinical nuclear medicine*
Keller, E. J., de Castro, C. M., Ghanouni, P., Shah, J.
2022
 - **Focused Ultrasound for Pediatric Diseases.** *Pediatrics*
Janwadkar, R., Leblang, S., Ghanouni, P., Brenner, J., Ragheb, J., Hennekens, C. H., Kim, A., Sharma, K.
2022; 149 (3)
 - **Increasing the transmission efficiency of transcranial ultrasound using a dual-mode conversion technique based on Lamb waves.** *The Journal of the Acoustical Society of America*
Kang, K. C., Kim, Y. H., Kim, J. N., Kabir, M., Zhang, Y., Ghanouni, P., Park, K. K., Firouzi, K., Khuri-Yakub, B. T.
2022; 151 (3): 2159
 - **A Review of Imaging Methods to Assess Ultrasound-Mediated Ablation** *BMEF: A Science Partner Journal*
Fite, B. Z., Wang, J., Ghanouni, P., Ferrara, K. W.
2022
 - **Integrating zonal priors and pathomic MRI biomarkers for improved aggressive prostate cancer detection on MRI**
Bhattacharya, I., Shao, W., Soerensen, S. C., Fan, R. E., Wang, J. B., Kunder, C., Ghanouni, P., Sonn, G. A., Rusu, M., Drukker, K., Iftekharuddin, K. M.
SPIE-INT SOC OPTICAL ENGINEERING.2022
 - **Patterned Interference Radiation Force for Transcranial Neuromodulation.** *Ultrasound in medicine & biology*
Kim, Y. H., Kang, K. C., Kim, J. N., Pai, C. N., Zhang, Y., Ghanouni, P., Park, K. K., Firouzi, K., Khuri-Yakub, B. T.
1800
 - **The stanford prostate cancer calculator: Development and external validation of online nomograms incorporating PIRADS scores to predict clinically significant prostate cancer.** *Urologic oncology*
Wang, N. N., Zhou, S. R., Chen, L., Tibshirani, R., Fan, R. E., Ghanouni, P., Thong, A. E., To'o, K. J., Amirkhiz, K., Nix, J. W., Gordetsky, J. B., Sprenkle, P., Rais-Bahrami, et al
2021
 - **AAPM Task Group 241: A Medical Physicist's Guide to MRI-guided Focused Ultrasound Body Systems.** *Medical physics*
Payne, A., Chopra, R., Ellens, N., Chen, L., Ghanouni, P., Sammet, S., Diederich, C., Ter Haar, G., Parker, D., Moonen, C., Stafford, J., Moros, E., Schlesinger, et al
2021
 - **A Pilot Study of 68Ga-PSMA11 PET/MRI and 68GaRM2 PET/MRI for Biopsy Guidance in Patients with Suspected Prostate Cancer**
Duan, H., Ferri, V., Ghanouni, P., Daniel, B., Hatami, N., Davidzon, G., Aparici, C., Moradi, F., Thong, A., Sonn, G., Iagaru, A.
SOC NUCLEAR MEDICINE INC.2021
 - **Automated Detection of Aggressive and Indolent Prostate Cancer on Magnetic Resonance Imaging.** *Medical physics*
Seetharaman, A., Bhattacharya, I., Chen, L. C., Kunder, C. A., Shao, W., Soerensen, S. J., Wang, J. B., Teslovich, N. C., Fan, R. E., Ghanouni, P., Brooks, J. D., To'o, K. J., Sonn, et al
2021
 - **Transcranial focused ultrasound phase correction using the hybrid angular spectrum method.** *Scientific reports*
Leung, S. A., Moore, D., Webb, T. D., Snell, J., Ghanouni, P., Butts Pauly, K.
2021; 11 (1): 6532
 - **Evaluation of an MRI receive head coil for use in transcranial MR guided focused ultrasound for functional neurosurgery.** *International journal of hyperthermia : the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group*
Bitton, R. R., Sheingauz, E., Assif, B., Kelm, N., Dayan, M., Butts Pauly, K., Ghanouni, P.
2021; 38 (1): 22–29

- **Selective identification and localization of indolent and aggressive prostate cancers via CorrSigNIA: an MRI-pathology correlation and deep learning framework.** *Medical image analysis*
Bhattacharya, I., Seetharaman, A., Kunder, C., Shao, W., Chen, L. C., Soerensen, S. J., Wang, J. B., Teslovich, N. C., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, et al
2021; 75: 102288
- **Weakly Supervised Registration of Prostate MRI and Histopathology Images**
Shao, W., Bhattacharya, I., Soerensen, S. C., Kunder, C. A., Wang, J. B., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, M., DeBruijne, M., Cattin, P. C., Cotin, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2021: 98-107
- **Clinically significant prostate cancer detection on MRI with self-supervised learning using image context restoration**
Bolous, A., Seetharaman, A., Bhattacharya, I., Fan, R. E., Soerensen, S., Chen, L., Ghanouni, P., Sonn, G. A., Rusu, M., Mazurowski, M. A., Drukker, K.
SPIE-INT SOC OPTICAL ENGINEERING.2021
- **Focused ultrasound for functional neurosurgery.** *Journal of neuro-oncology*
Lev-Tov, L., Barbosa, D. A., Ghanouni, P., Halpern, C. H., Buch, V. P.
2021
- **Design and evaluation of an open-source, conformable skin-cooling system for body magnetic resonance guided focused ultrasound treatments.** *International journal of hyperthermia : the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group*
Merrill, R., Odeen, H., Dillon, C., Bitton, R., Ghanouni, P., Payne, A.
2021; 38 (1): 679–90
- **3D Registration of pre-surgical prostate MRI and histopathology images via super-resolution volume reconstruction.** *Medical image analysis*
Sood, R. R., Shao, W. n., Kunder, C. n., Teslovich, N. C., Wang, J. B., Soerensen, S. J., Madhuripan, N. n., Jawahar, A. n., Brooks, J. D., Ghanouni, P. n., Fan, R. E., Sonn, G. A., Rusu, et al
2021; 69: 101957
- **Registration of pre-surgical MRI and histopathology images from radical prostatectomy via RAPSODI.** *Medical physics*
Rusu, M., Shao, W., Kunder, C. A., Wang, J. B., Soerensen, S. J., Teslovich, N. C., Sood, R. R., Chen, L. C., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A.
2020
- **Does Fibroid Size and Bulk Affect Uterine Fibroid Symptom (UFS) Scores in Asian Compared to Caucasian Women?**
Dhanani, Z., Ramirez, N., Ghanouni, P., Chen, B.
LIPPINCOTT WILLIAMS & WILKINS.2020: 21S
- **Impact of skull density ratio on efficacy and safety of magnetic resonance-guided focused ultrasound treatment of essential tremor** *JOURNAL OF NEUROSURGERY*
D'Souza, M., Chen, K. S., Rosenberg, J., Elias, W., Eisenberg, H. M., Gwinn, R., Taira, T., Chang, J., Lipsman, N., Krishna, V., Igase, K., Yamada, K., Kishima, et al
2020; 132 (5): 1392–97
- **Does Fibroid Size and Bulk Affect Uterine Fibroid Symptom (UFS) Scores in Asian Compared to Caucasian Women?**
Ramirez, N., Dhanani, Z., Ghanouni, P., Chen, B.
SPRINGER HEIDELBERG.2020: 134A
- **Case Report on Deep Brain Stimulation Rescue After Suboptimal MR-Guided Focused Ultrasound Thalamotomy for Essential Tremor: A Tractography-Based Investigation.** *Frontiers in human neuroscience*
Saluja, S. n., Barbosa, D. A., Parker, J. J., Huang, Y. n., Jensen, M. R., Ngo, V. n., Santini, V. E., Pauly, K. B., Ghanouni, P. n., McNab, J. A., Halpern, C. H.
2020; 14: 191
- **Acoustic Attenuation: Multifrequency Measurement and Relationship To CT and MR Imaging.** *IEEE transactions on ultrasonics, ferroelectrics, and frequency control*
Webb, T. D., Leung, S. A., Ghanouni, P. n., Dahl, J. J., Pelc, N. J., Pauly, K. B.
2020; PP
- **ProsRegNet: A deep learning framework for registration of MRI and histopathology images of the prostate.** *Medical image analysis*
Shao, W. n., Banh, L. n., Kunder, C. A., Fan, R. E., Soerensen, S. J., Wang, J. B., Teslovich, N. C., Madhuripan, N. n., Jawahar, A. n., Ghanouni, P. n., Brooks, J. D., Sonn, G. A., Rusu, et al
2020; 68: 101919

- **Bilateral Deep Brain Stimulation is the Procedure to Beat for Advanced Parkinson Disease: A Meta-Analytic, Cost-Effective Threshold Analysis for Focused Ultrasound.** *Neurosurgery*
Mahajan, U. V., Ravikumar, V. K., Kumar, K. K., Ku, S. n., Ojukwu, D. I., Kilbane, C. n., Ghanouni, P. n., Rosenow, J. M., Stein, S. C., Halpern, C. H.
2020
- **MRI-Guided Focused Ultrasound of Osseous Metastases: Treatment Parameters Associated With Successful Pain Reduction.** *Investigative radiology*
Bitton, R. R., Rosenberg, J. n., LeBlang, S. n., Napoli, A. n., Meyer, J. n., Butts Pauly, K. n., Hurwitz, M. n., Ghanouni, P. n.
2020
- **Improved Vim targeting for focused ultrasound ablation treatment of essential tremor: A probabilistic and patient-specific approach.** *Human brain mapping*
Su, J. H., Choi, E. Y., Tourdias, T. n., Saranathan, M. n., Halpern, C. H., Henderson, J. M., Pauly, K. B., Ghanouni, P. n., Rutt, B. K.
2020
- **Three-year follow-up of prospective trial of focused ultrasound thalamotomy for essential tremor.** *Neurology*
Halpern, C. H., Santini, V., Lipsman, N., Lozano, A. M., Schwartz, M. L., Shah, B. B., Elias, W. J., Cosgrove, G. R., Hayes, M. T., McDannold, N., Aldrich, C., Eisenberg, H. M., Gandhi, et al
2019
- **Predictors of Outcomes After Focused Ultrasound Thalamotomy.** *Neurosurgery*
Krishna, V., Sammartino, F., Cosgrove, R., Ghanouni, P., Schwartz, M., Gwinn, R., Eisenberg, H., Fishman, P., Chang, J. W., Taira, T., Kaplitt, M., Rezai, A., Rumia, et al
2019
- **Prolonged heating in nontargeted tissue during MR-guided focused ultrasound of bone tumors** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Bitton, R. R., Webb, T. D., Pauly, K., Ghanouni, P.
2019; 50 (5): 1526–33
- **Prostate Magnetic Resonance Imaging Interpretation Varies Substantially Across Radiologists** *EUROPEAN UROLOGY FOCUS*
Sonn, G. A., Fan, R. E., Ghanouni, P., Wang, N. N., Brooks, J. D., Loening, A. M., Daniel, B. L., To'o, K. J., Thong, A. E., Leppert, J. T.
2019; 5 (4): 592–99
- **Evaluation of the routine use of pelvic MRI in women presenting with symptomatic uterine fibroids: When is pelvic MRI useful?** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Kim-Nhien Vu, Fast, A. M., Shaffer, R. K., Rosenberg, J., Dababou, S., Marrochio, C., Vasanaawala, S. S., Lum, D. A., Chen, B., Hovsepian, D. M., Ghanouni, P.
2019; 49 (7): E271–E281
- **Magnetic-resonance-guided focused ultrasound treatment of non-spinal osteoid osteoma in children: multicentre experience.** *Pediatric radiology*
Arrigoni, F., Napoli, A., Bazzocchi, A., Zugaro, L., Scipione, R., Bruno, F., Palumbo, P., Anzidei, M., Mercatelli, D., Gravina, G. L., Zoccali, C., Ghanouni, P., Barile, et al
2019
- **How Often is the Dynamic Contrast Enhanced Score Needed in PI-RADS Version 2?** *Current problems in diagnostic radiology*
Roh, A. T., Fan, R. E., Sonn, G. A., Vasanaawala, S. S., Ghanouni, P., Loening, A. M.
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