

Asim Kumar Bag, M.B.B.S., M.D., EDiNR

St. Jude Children's Research Hospital
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1. Current Position

Associate Member, Diagnostic Imaging St. Jude Children's Research Hospital Memphis, TN 38105	2018 – Present
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2. Education and Training

M.B.B.S.	Medical College Calcutta, Kolkata, India	1995 - 2001
M.D.	Medical College Calcutta, Kolkata, India	2003 - 2006
Fellowship	Neuroradiology, University of Alabama at Birmingham	2007- 2008
Fellowship	Vascular and Intervention, University of Alabama at Birmingham	2008- 2009
Fellowship	Neuroradiology Research, University of Alabama at Birmingham	2009- 2010
Fellowship	Molecular Imaging, University of Alabama at Birmingham	2010- 2011

3. Board Certification

DABR	Diplomate, The American Board of Radiology	2011
DABNM	Diplomate, The American Board Nuclear Medicine	2011
CAQ	Certified Added Qualification in Neuroradiology, The American Board of Radiology	2013
EDiNR	European Diploma in Neuroradiology	2016

4. Professional Career

Registrar Apollo Gleneagles Hospital Kolkata, India	5/2006 - 9/2006
Assistant Professor The University of Alabama at Birmingham Birmingham, AL	11/2011 – 9/2016
Research Faculty Children's Hospital of Alabama Birmingham, AL	10/2015 – 7/2018
Associate Professor The University of Alabama at Birmingham Birmingham, AL	10/2016 – 7/2018
Associate Member St. Jude Children's Research Hospital Memphis, TN 38105	8/2018 - present

5. Licensure

Medical Council of India, India	2001 – 2011
West Bengal Medical Council, WB, India	2001 – 2011

Alabama Limited Medical License
Alabama Full Medical License
Tennessee Full Medical License

L.2842R
M.D. 31216
57652

2007 – 2011
2011 – 2018
2018 – present

5. Professional Memberships

i. Memberships

Radiological Society of North America (RSNA)	2004 – present
American Roentgen Ray Society (ARRS)	2007 – present
American Society of Head and Neck Radiology (ASHNR)	2007 – 2011
American College of Radiology (ACR)	2008 – 2018
American Society of Functional Neuroradiology (ASFNR)	2009 – present
Society of Nuclear Medicine (SNM)	2010 – present
American College of Nuclear Medicine (ACNM)	2011 – 2018
European Society of Neuroradiology (ESNR)	2012 – present
European Society of Radiology	2013 – present
American Association of Cancer Research	2019 – present

ii. Appointments in Professional Societies

Young Professional Subcommittee of Fellowship Directors, ASNR	2010 - 2013
Adult Brain Tumor Consortium, An NCI initiative	2011 - 2018
Board of Directors, American College of Nuclear Medicine	2011 - 2013
American College of Nuclear Medicine Internship	2012 - 2013
Education Subcommittee, Young Professionals Committee, ASNR	2013 - 2014
Young Professionals Committee, a Subcommittee of the Health Policy Committee, ASNR	2014 - 2015
Educational Development, Membership Task Force, SNMMI	2014 - present
Educational Committee, American College of Nuclear Medicine	2014 - 2016

6. Editorial Board Appointments/Review Activities

i. Board Appointments

Young Professionals Advisory Committee to the Editors, the <i>American Journal of Neuroradiology</i>	2012 – 2018
SAM and CME Editor, <i>Clinical Nuclear Medicine</i>	2013 - 2019
Consulting Editor-Live Programming, The American Roentgen Ray Society	2016 – present

ii. Journal Reviewer:

Reviewer, <i>American Journal of Neuroradiology</i>	2008 - present
Reviewer, <i>Neuroradiology</i>	2010 - present
Reviewer, <i>Neurosurgery</i>	2010 - 2018
Reviewer, <i>The Lancet</i>	Ad Hoc
Reviewer, <i>Journal of Neuroophthalmology</i>	2013 - 2018
Reviewer, <i>Clinical Nuclear Medicine</i>	2013 - present
Reviewer, <i>Clinical Neurology Neurosurgery</i>	2013 - present
Reviewer, <i>Journal of Neurosciences</i>	2014 - present

iii. Grants Reviewer

National Cancer Research Institute, London, UK.	2021
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7. Working-group membership

The Response Assessment in Pediatric Neuro-Oncology (RAPNO). Low grade glioma Committee.
The immunotherapy Response Assessment in Neuro-Oncology (iRANO)

8. Honors and Awards

1. 3rd Prize for the UAB Alpha Omega School of Medicine ART Show Completion: Photography section 2009
2. Biography indexes in 2011-2012 edition of Marquis Who's Who in Science and Engineering 2010
3. Recipient of the Roentgen Resident/Fellow Research Award, Research and Education Foundation, Radiology Society of North America in Recognition of Outstanding Radiology Research 2011
4. Appointed as "2011-2013 Intern" of the American College of Nuclear Medicine 2011
5. Appointed as site radiology PI for UAB site for Adult Brain Tumor Consortium, National Cancer Institute, NIH 2011
6. Selected for Radiology Society of North America Advanced Grant Writing Course 2012
7. Certificate of recognition as a reviewer of the American Journal of Radiology 2012
8. Louisville Slugger Award for giving Best Board Review to the senior residents, UAB Department of Radiology 2012
9. Biography indexed in 2013 Edition of Who's Who in America 2012
10. Top Ten Faculty Award for Excellence in Resident Education, UAB Department of Radiology 2013, 2015, 2017
11. Associate Scientist, Neuro-oncology Program, UAB Comprehensive Cancer Center 2013-2018
12. Top Ten Faculty Award for Excellence in Resident Education, UAB Department of Radiology 2017
13. Recipient of "Magna Cum Laude" certificate for electronic educational exhibit titled "Imaging aging brain" in annual meeting of American Society of Neuroradiology 2018
14. Member, Comprehensive Cancer Center, St Jude Children's Research Hospital 2022

9. Consortium Activities

Children Oncology Group (COG)
Pediatric Brain Tumor Consortium (PBTC)

10. Formal Education/Teaching Activities

i. Teaching Activities

Clinical Instructor/Fellow, UAB School of Medicine, Birmingham, AL

2009 – 2010

Assistant Professor of Radiology, UAB School of Medicine, Birmingham, AL	2011 – 2016
Associate Scientist, Neuro-oncology Program, UAB Comprehensive Cancer Center	2013 – 2018
Associate Professor of Radiology, UAB School of Medicine, Birmingham, AL	2016 – 2018
Assistant Program Director, Neuroradiology Fellowship Program, School of Medicine, Birmingham, AL	2015-2018
Director, Pediatric Oncologic Imaging Education, St. Jude Children’s Research Hospital	2019- present
Co-Chair, Pediatric Biomedical Imaging Initiative, St. Jude Children’s Research Hospital	2019- present

ii. Mentoring

Project: Glioblastoma Multiforme Patient Prognosis: Can Change in Peritumoral Cerebral Blood Flow Predict Survival?	May 2011 - August 2011
Mentee: Phillip Cezayirili, 3 rd year Medical Student.	
Project: Retrospective analysis of imaging brain tumor with different postprocessing techniques with histopathologic validation for better prediction of treatment response and time to survival.	June 2012 - September 2012
Mentee: Phillip Cezayirili, 4 th year Medical Student. Jake Davenport PGY3 Resident	
Project: Evaluation of peritumoral perfusion parameters in newly diagnosed primary Glioblastoma Multiforme Patients for prediction for overall survival.	September 2013 - April 2014
Mentee: Phillip Cezayirili, 4 th year Medical Student	
Project: Evaluation of peritumoral perfusion parameters in newly diagnosed primary Glioblastoma Multiforme Patients for prediction for overall survival.	May 2014 - June 2014
Mentee: John Evans, 3 rd year medical student	
Project: “Evaluation of peritumoral perfusion parameters in newly diagnosed primary Glioblastoma Multiforme Patients for prediction for overall survival.	January 2014 - June 2014
Mentee: Aparna Singhal, Neuroradiology Fellow	
Project: Evaluation of role of 11-C-Methionine PET scan in recurrent pediatric high grade gliomas.	May 2019 - Aug 2019
Mentee: Melissa Wing, Trainee, Pediatric Oncologic Education, part of an NIH R25 award	
Project: Evaluation of role of 11-C-Methionine PET scan in pediatric low grade gliomas.	May 2022 - Aug 2022
Mentee: Yooyoung Emily Kim, Trainee, Pediatric Oncologic Education, part of an NIH R25 award	

9. Grant Awards

Active

NCI/SBIR 1 R44 CA250883-01 (0.1 FTE)	(Gillespie, PI)	(2021-2023)
Phase II Clinical Trial of G207 HSV to Treat Children with High Grade Gliomas		
FDA FD006368-01A1 (0.05 FTE)	(Friedman, PI)	(2019-2022)
Phase I Clinical Trial of HSV G207 alone or with a Single Radiation Dose in Children with Recurrent Cerebellar Tumors.		

Cannonball Foundation (0.02 FTE) (Friedman, PI) (2019-2022)
Phase I Clinical Trial of HSV G207 alone or with a Single Radiation Dose in Children with Recurrent Cerebellar Tumors.

Pending

NCI/Applied (0.1 FTE) (Bag, PI) (2022-2024)
Quantitate radiation induced brain neuroinflammation in patients with pediatric brain tumors.

Completed/Inactive

NIH/NCI 1R01FD005379-01 (0.09 FTE) (Friedman, PI) 2016-2019 Phase I Clinical Trial of HSV G207 Alone or with a Single Radiation Dose in Children with Recurrent Supratentorial Brain Tumors.

UAB Comprehensive Cancer Center (Bag, PI) 2015-2016 Image Based Quantitative Assessment of Acute Radiation Induced Changes in Glioblastoma Multiforme. Principal Investigator: Bag AK; Agency: UAB Comprehensive Cancer Center; Award: \$50,000.00; NO Salary support. Period: December 2015 – 2016

NIH/NINDS U01NS093663-01 (0.03FTE) (Griguer, PI) 2016-2018 Prospective Phase II Study of Cytochrome C Oxidase Activity as a Novel Biomarker In Patients With Newly Diagnosed Primary Glioblastoma Multiforme. PI: C Gruer. Agency: NIH-Network for Excellence in Neuroscience Clinical Trial. Type: Multi-institutional.

UAB Department of Radiation Oncology (Boggs, PI) (2017-2019) A Pilot Study and Phase II Double Blind Placebo Controlled Randomized Trial Examining the Safety and Efficacy of Glyburide as Prophylaxis Against Cerebral Edema in Patients Receiving Radiosurgery for Brain Metastases.

UAB Department of Radiology AMC 21 grant \$50000.00 (McConathy, PI) (2016 -2018) FDOPA-PET/MRI for radiation therapy planning and monitoring treatment response in glioblastoma.

UAB Department of Radiology RRIPA grant \$20000.00 (Bag, PI) (2017- 2019) Assessment of homeostatic functions of VEGF in normal functioning of dentate gyrus of hippocampus and in episodic memory.

10. Clinical Trials

Active

1. (Friedman, PI) (2019-Prsent)
HSV G207 in Children With Recurrent or Refractory Cerebellar Brain Tumors. NCT03911388
2. (Shulkin, PI) (2018-Prsent)
MetPET: Methionine PET/CT Studies in Patients with Cancer. NCT00840047
3. (Merchant, PI) (2019-Prsent)
HALGG: A Phase II Study of Hippocampal-Avoidance Using Proton Therapy in Low-Grade Glioma. NCT04065776
4. (Bag, PI) (2020-Prsent)
TRASBI: Testing Repeatability of Advanced Structural Brain Imaging
5. (Giles, Vinitsky, PIs). (2021-Prsent)
SJ901: Phase 1/2 Evaluation of Single Agent Mirdametinib (PD-0325901), a Brain Penetrant MEK 1/2 Inhibitor, for the Treatment of Children, Adolescents, and Young Adults with Low-Grade Glioma. NCT04923126
6. (Bag, PI) (2021- Present)
QARIN1: Quantitative Assessment of Radiation-induced Neuroinflammation – A Proof of Principle Study. NCT05128903

Pending

1. (Friedman, PI) (2022-2025)
HSV G207 in Children With Recurrent or Refractory Cerebellar Brain Tumors. NCT04482933

Completed/Inactive

1. Evaluation of Dotarem®-enhanced MRA compared to Time-Of-Flight (TOF) MRA in the Diagnosis of Carotid and Vertebral Basilar Arterial Disease; Protocol # DGD-44-049. Sep 2009 - Dec 2010 Guerbet, Inc. Type: Multi-institutional Protocol ID: DGD -44-049; (<http://clinicaltrials.gov/ct2/show/NCT01012674>) November 2009 - October 2010.
2. "Phase IV, double-blind, multi-center, randomized, crossover study to compare 0.1 mmol/kg of prohance® with 0.1 mmol/kg of gadovist®/gadavist™ in magnetic resonance imaging (mri) of the brain" Principal Investigator: **AK Bag** Agency: Bracco, Inc. Type: Phase IV, Multi-institutional. Protocol ID: PH-107 Period: June 2010.
3. "Randomized, Phase II, double-blind, placebo-controlled trial of conventional chemoradiation and adjuvant temozolomide plus cerdiranib versus conventional chemoradiation and adjuvant temozolomide plus placebo in patients with newly diagnosed glioblastoma" Principal Investigator: J Fiveash Agency: Radiation Therapy Oncology Group; funded by National Cancer Institute. (www.rtog.org) Type: Multi-institutional Protocol ID # RTOG 0837(<http://www.rtog.org/members/active.html#brain>) Period: September 2010.
4. "An Open Label, Phase II Study Evaluating the Safety and Efficacy of IMC-3G3 or IMC-1121B in Patients with Recurrent Glioblastoma Multiforme." Principal Investigator: LB Nabors Agency: Adult Brain Tumor Consortium, an initiative of National Cancer Institute; (http://ctep.cancer.gov/MajorInitiatives/Adult_Brain_Tumor_Consortium.htm) Protocol Id: IMC 0901. (<http://www.abtconsortium.org/?q=node/4>)Type: Multi-institutional Period: November 2010.
5. "A Phase Ib Study of Cediranib in Combination with Cilengitide in Patients with Recurrent Glioblastoma" Principal Investigator: LB Nabors Agency: Adult Brain Tumor Consortium, an initiative of National Cancer Institute: (http://ctep.cancer.gov/MajorInitiatives/Adult_Brain_Tumor_Consortium.htm) Protocol Id: AZD +EMD (0903). (<http://www.abtconsortium.org/?q=node/4>)Type: Multi-institutional Period: November 2010.
6. Multicenter, Phase II assessment of tumor hypoxia in glioblastoma using ¹⁸F Fluoromisonidazole (FMISO) with PET and MRI. PI: JP O'Malley. ACR Imaging Network, National Cancer Institute Cooperative Group. (www.acrin.org) Type: Multi-institutional Protocol ID: ACRIN 6689 (<http://www.acrin.org/protocolssummarytable.aspx>) Period: September 2010 - 2011. Prematurely closed due to very slow accrual.
7. Safety and Efficacy Evaluation of Dotarem in Magnetic Resonance Imaging (MRI) in Patients with Central Nervous System (CNS) Lesions. PI: Roberson GH Guerbet, Inc. Type: Phase III, Multi-institutional Protocol # DGD -44-050; (<http://clinicaltrialsfeeds.org/clinical-trials/show/NCT01211873>) Period: November 2010 - August 2011.
8. Phase IV, double-blind, multi-center, randomized, crossover study to compare 0.1 mmol/kg of Prohance® with 0.1 mmol/kg of Gadovist®/gadavist™ in magnetic resonance imaging (mri) of the brain (*truth*) Principal Investigator: **Bag AK**. Sponsor: Bracco Diagnostic. Type: Multi-institutional Protocol ID: PH107: (<http://clinicaltrials.gov/ct2/show/NCT01613417?term=ph+107&rank=1>). Type: Multi-institutional. Period: July 2012 - 2014.
9. Phase IV, Double-Blind, Multi-Center, Randomized, Two-Arm Crossover Study to Compare

0.1 Mmol/Kg of Multihance[®] with 0.1 mmol/Kg of Dotarem[®] and 0.05 Mmol/Kg of Multihance[®] with 0.1 mmol/Kg of Dotarem[®] in Magnetic Resonance Imaging (MRI) of the Brain (BENEFIT). Principal Investigator: **Bag AK**. Sponsor: Bracco Diagnostic. Type: Multi-institutional Protocol ID: MH148: (<http://clinicaltrials.gov/ct2/show/NCT02070380?term=mh148&rank=1>). Type: Multi-institutional. Period: July 2014 - 2015.

10. A Phase 1 Open Label Safety Study to Evaluate the Pharmacokinetic Profile and Tolerance of Mibefradil Dose Finding in Subjects with Recurrent High-Grade Glioma Undergoing Standard, Repeated Temozolomide Treatment. Principal Investigator: LB Nabors. Agency: Adult Brain Tumor Consortium, an initiative of National Cancer Institute: (http://ctep.cancer.gov/MajorInitiatives/Adult_Brain_Tumor_Consortium.htm). Protocol Id: Mibefradil (ABTC 1101). (<http://www.abtconsortium.org/?q=node/4>). Type: Multi-institutional Period: April 2014 – present
11. Intra-individual cross-over efficacy evaluation of DOTAREM[®]-enhanced MRI compared to GADOVIST[®] / GADAVIST[®]-enhanced MRI in the diagnosis of brain tumors. Principal Investigator: **Bag AK**. Sponsor: Guerbet, LLC. Type: Multi-institutional Protocol ID: DGD -44-058: (<http://clinicaltrials.gov/ct2/show/NCT02034708?lead=Guerbet&rank=3>). Type: Multi-institutional. Period: April 2014 - 2017.

11. Publication Record

i. Peer-reviewed

1. Pal DK, **Bag AK**, Spontaneous Rupture of Urinary Bladder in Puerperium. *Indian J Surg*. 2005; 67:321-2.
2. Pal DK, **Bag AK**, Intravesical Wire-Unusual Foreign Body in Urinary Bladder. *Int Braz J Urol*. 2005; 31:472-4. PMID: 16255795.
3. Basu AK, Pal SK, Guha S, Banerjee, Chatterjee N, **Bag AK**, Adhikary A: Carotid Intima Media Thickness: An Independent Marker for assessment of Macrovascular Risk in Diabetic Patients. *J Indian Med Assoc*. 2005;103:234-6; PMID: 16173433.
4. Pal DK, **Bag AK**, Prolapsing Anterior Urethral Polyp. *Indian J Urol* 2006; 22:142-3.
5. Pal DK, Bhattacharya N, **Bag AK**, Sinha L, Recurrent Rhinosporidiosis of Male Urethra. *Indian J Surg* 2006; 68:97-8.
6. Pal DK, **Bag AK**, Sarkar S. Giant Seminal Vesicle Cyst With Ipsilateral Hypoplastic Kidney: Report of a Case With Review of Literature. *Indian J Urol* 2006; 22:64-5.
7. Maity TK, Adhikari AK, Manna AK, **Bag AK**, Mondal RC, Roy BK, Abdominal pregnancy in a clinically postmenopausal woman - A Case Report . *J Obstet. Gynaecol. India* 2007; 57:549-550.
8. **Bag AK**, Curé JK, Sullivan JC, Roberson GH, Central Variant of Posterior Reversible Encephalopathy Syndrome in Systemic Lupus Erythematosus: New Associations? *Lupus* 2010; 19:225-6; PMID: 19880556.
9. Shah R, Markert J, **Bag AK**, Curé JK. Diffusion Tensor Imaging in Hypertrophic Olivary Degeneration. *Am J Neuroradiol*. 2010; 31:1729-31; PMID: 20019104.
10. **Bag AK**, Curé JK, Chapman PR, Roberson GH, Shah R. JC virus infection of brain. *Am J Neuroradiol*. 2010; 31:1564-76; PMID: 20299430.
11. Shah R, **Bag AK**, Curé JK, Chapman PR. Imaging Manifestations of Progressive Multifocal Leukoencephalopathy. *Clin Radiol*. 2010; 65:431-39; PMID: 20451009.

12. **Bag AK**, Shah R. Imaging of Cavernous Sinus: Self-Assessment module. *Am J Roentgenol.* 2010; 195:S38–S41; PMID: 20729411.
13. **Bag AK**, Shah R. AJR Teaching File: Cavernous Sinus Mass in a Woman presenting with Painful Ophthalmoplegia. *Am J Roentgenol.* 2010; 195:WS1–WS4; PMID: 20729414.
14. Stewart JG, Sawrie SM, **Bag AK**, Han SX, Fiveash JB. Management of Brain Metastases. *Curr Treat Options Neurol.* 2010; 12:334-346; PMID: 20842592
15. **Bag AK**, Chapman PR. Strategic Involvement of Facial Colliculus in Systemic Lupus Erythematosus. *Lupus* 2011; 20:332-3; PMID: 20956461.
16. Chapman PR, Shah R, Curé JK, **Bag AK**. Petrous Apex Lesions: Pictorial review. *Am J Roentgenol.* 2011; 196: WS 26-37; PMID: 21343538.
17. **Bag AK**, Shah R, Curé JK, Chapman PR. Imaging of petrous apex lesions: Self-Assessment module. *Am J Roentgenol.* 2011; 196:S40-3; PMID: 21343535.
18. Zhao L, Barlinn K, **Bag AK**, Kesani M, Cava LF, Balucani C, Alexandrov AW, Horton JA, Patterson DE, Harrigan MR, Albright KC, Alexandrov AV. The Value of CT Perfusion (CTP) Prognostic Maps in Predicting Reversible and Irreversible Neurological Dysfunction Following Reperfusion Therapies. *Int. J. Stroke* 2011; 6:544-6. PMID 22111800
19. **Bag AK**, Patel BN, Osman S, Roberson GH. Clinico-radiologic Profile of Spinal Cord MS in Adults. *NRJ* 2011;14:511-8 PMID: 24059707 **(Selected as a CME article)**
20. Hackney JR, Riley KO, Vaphiades MS, **Bag AK**, Palmer CA. Pituitary Adenoma Complicated by Multifocal Fibrosclerosis Involving Sella and Retroperitoneum. *Clinical Medicine and Diagnostics* 2011; 1:17-20.
21. Abdel-Aal AK, Hamed MF, Al Naief NS, Vattoth S, **Bag A**. Unusual appearance and presentation of supratentorial subependymoma in an adult patient. *J Radiol Case Rep.* 2012; 6:8-16. PMID: 23365712.
22. Saddekni S, Abdel-Aal AK, Oser RF, Underwood E, **Bag A**. Transcatheter embolization of extensive left gastric artery collaterals presenting with massive upper gastrointestinal bleed. *Vasc Endovascular Surg.* 2012; 46:480-3. PMID: 22669265
23. Gorman EF, **Bag AK**, Palmer CA. Man with posterior fossa tumors 15 years apart. *Brain Pathol.* 2012;22:117-20. PMID: 22150927
24. Abdel-Aal AK, **Bag AK**, Saddekni S, Hamed MF, Ahmed FY. Endovascular management of non-variceal upper gastrointestinal hemorrhage. *Eur J Gastroenterol Hepatol.* 2013; 25:755-63. PMID: 23492985.
25. Palot-Manzil FF, Bhambhvani PG, Vattoth S, Subedi SK, **Bag AK**, O'Malley JP. Valuable role of correlative imaging in the diagnosis of primary hyperparathyroidism related brown tumors which mimicked other giant-cell containing skeletal tumors. *Journal of Nuclear Medicine Technology* 2013; 41:46-8. PMID: 23385541.
26. Chapman PR, **Bag AK**, Tubbs S, Gohlke P. Practical anatomy of the central skull base region. *Semin Ultrasound CT MRI* 2013;34:381-92 PMID: 24216449
27. **Bag AK**, Chapman PR. Neuroimaging: Intrinsic lesions of central skull base region. *Semin Ultrasound CT MRI* 2013;34:412-35 PMID: 24216451.
28. Chapman PR, Gaddamanugu S, **Bag AK**, Roth NT, Vattoth S. Vascular lesions of the central skull base region. *Semin Ultrasound CT MRI* 2013;34:459-75. PMID: 24216454
29. Vattoth S, Palot-Manzil FF, Singhal A, Riley KO, **Bag AK**. State of the art epilepsy imaging: an update. *Clin Nucl Med.* 2014 Jun;29(6):511-26. PMID: 24806603.
30. Gebhardt BJ, Dobelbower MC, Ennis WH, **Bag AK**, Markert JM, Nabors LB, Fiveash JB. Patterns of failure of Glioblastoma multiforme following limited-margin radiation and concurrent temozolomide. *Radiat*

oncol. 2014 Jun 6;9(1):130. PMID: 24906388.

31. **Bag AK**, Davenport JJ, Hackney JR, Roy R, Fathallah-Shaykh HM. Case 212. *Radiology.* 2014 Aug;272(2):605-7. doi: 10.1148/radiol.14131354. PubMed PMID: 25058136.
32. **Bag AK**, Gaddikeri S, Singhal A, Hardin S, Tran BD, Medina J, Curé JK. Imaging of temporomandibular joint. *World J Radiol.* 2014;6:567-82 PMID: 25170394; PMCID: PMC4147437
33. **Bag AK**, Cezayirili PC, Gaddikeri S, Fathallah-Sheikh HM, Davenport JJ, Cantors A, Han XS, Nabors LB. Survival analysis in patients with newly diagnosed primary Glioblastoma multiforme using pre- and post-treatment peritumoral perfusion imaging parameters. *J Neurooncol.* 2014;120:361-70. PMID: 25098699
34. **Bag AK**, Davenport JJ, Hackney JR, Roy R, Fathallah-Sheikh HM. Case 272: CLIPPERS. *Radiology.* 2014;273:940-7. PMID: 25420171
35. Maravilla KR, Smith MP, Vymazal J, Goyal M, Herman M, Baima JJ, Babbel R, Vaneckova M, Zizka J, Colosimo C, Urbanczyk-Zawadzka MU, Mechl M, **Bag AK**, Bastianello S, Bueltmann E, Hirai T, Frattini T. Are there differences between macrocyclic gadolinium contrast agents for brain tumor imaging? Results of a multicenter intra-individual crossover comparison of gadobutrol with gadoteridol (The TRUTH study). *AJNR Am J Neuroradiol.* 2015;36:14-23 PMID: 25300984
36. Scribner E, Saut O, Province P, **Bag AK**, Fathallah-Shaykh HM. Glioblastoma grows during anti-angiogenesis: model to clinical predictions. *PLOS One.* 2014;9(12):e115018. PMID: 25506702
37. **Bag AK**, Curé JK, Chapman PR, Pettibon KD, Gaddamanugu S. Practical Imaging of the Parotid Gland. *Curr Probl Diagn Radiol.* 2015;44:167-92 PMID: 25432171
38. Amaral LF, Gaddikeri S, Chapman PR, Roy R, Gaddikeri RS, Marussi VH, **Bag AK**. Neurodegeneration with brain iron accumulation: Clinico-radiological Approach to Diagnosis. *J Neuroimaging.* 2015;25:539-51 PMID: 25545045
39. **Bag AK**, Kim H, Gao Y, Bolding M, Warren PP, Fathallah-Shaykh HM, Markert JM, Fiveash J, Beasley TM, Gurler D, Khawaja A, Friedman GK, Chapman PR, Nabors LB, Han XS. Prolonged treatment with bevacizumab is associated with brain atrophy: A pilot study in patients with high-grade gliomas. *J Neuro-oncol.* 2015;122:585-93. PMID: 25711673
40. Baldwin J, **Bag AK**, O'Malley J, White S, Palot-Manzil F. All you need to know as an authorized user. *AJR Am J Roentgenol.* 2015;205:251-8. PMID: 26204272
41. Lodge MA, Holdhoff M, Leal JP, **Bag AK**, Nabors LB, Mintz A, Lesser GJ, Mankoff DA, Desai AS, Mountz JM, Lieberman FS, Fisher JD, Desideri S, Ye X, Grossman SA, Schiff D, Wahl RL. Repeatability of (18)F-FLT PET in a Multicenter Study of Patients with High-Grade Glioma. *J Nucl Med.* 2017 Mar;58(3):393-398. doi:10.2967/jnumed.116.178434.
42. Venkatraman A, Khawaja A, **Bag AK**, Mirza M, Szaflarski JP, Pati S. Perfusion MRI can impact treatment decision in ictal-interictal continuum. *Clin Neurophys;* DOI: 10.1097/WNP.0000000000000350
43. Waters AM, Johnston JM, Reddy AT, Fiveash J, Madan-Swain A, Kachurak K, **Bag AK**, Gillespie GY, Markert JM, Friedman GK. Rationale and Design of a Phase I Clinical Trial to Evaluate HSV G207 Alone or with a Single Radiation Dose in Children with Progressive or Recurrent Malignant Supratentorial Brain Tumors. *Hum Gene Ther Clin Dev.* 2017 Feb 24. doi: 10.1089/hum.2017.002.
44. Palot Manzil FF, Baldwin J, **Bag AK**. Pediatric Skeletal Scintigraphy: What a General Radiologist Needs to Know. *Curr Probl Diagn Radiol.* 2017:S0363-0188(17)30141-X. doi: 10.1067/j.cpradiol.2017.07.001.
45. Maravilla KR, San-Juan D, Kim SJ, Elizondo-Riojas G, Fink JR, Escobar W, **Bag A**, Roberts DR, Hao J, Pitrou C, Tsiouris AJ, Herskovits E, Fiebach JB. Comparison of Gadoterate Meglumine and Gadobutrol in the MRI Diagnosis of Primary Brain Tumors: A Double-Blind Randomized Controlled Intraindividual Crossover Study (the REMIND Study). *AJNR Am J Neuroradiol.* 2017;38:1681-1688. doi:10.3174/ajnr.A5316. PMID: 25300984
46. **Bag AK**, Curé JK, Chapman PR, Singhal A, Haneef Mohamed AW. Imaging of Inflammatory Disorders of

Salivary Glands. *Neuroimaging Clin N Am*. 2018;28:255-272. doi: 10.1016/j.nic.2018.01.006. Review. PubMed PMID: 29622118

47. 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*. 2018;14:6-9. doi: 10.1016/j.radcr.2018.08.031. PMID: 30294403.
48. Bernstock JD, Wright Z, **Bag AK**, Gessler F, Gillespie GY, Markert JM, Friedman GK, Johnston JM. Stereotactic Placement of Intratumoral Catheters for Continuous Infusion Delivery of Herpes Simplex Virus -1 G207 in Pediatric Malignant Supratentorial Brain Tumors. *World Neurosurg*. 2019 Feb;122:e1592-e1598. doi: 10.1016/j.wneu.2018.11.122. PMID: 30481622.
49. Sotoudeh H, **Bag AK**, Brooks MD. "Code-Stroke" CT Perfusion; Challenges and Pitfalls. *Acad Radiol*. 2019; S1076-6332(19)30006-6. doi:10.1016/j.acra.2018.12.013. PMID: 30655051
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52. Bernstock JD, Vicario N, Li R, Valdes-Quevedo P, Choi BD, Chen J, DiToro D, Osorio DS, Kachurak K, Gessler F, Johnston Jr. JM, Atkinson TP, Whitley RJ, **Bag AK**, Gillespie Y, Markert JM, Maric D, Friedman GK. A novel in situ multiplex immunofluorescence panel for the assessment of tumor immunopathology and response to virotherapy in pediatric glioblastoma reveals a role for checkpoint protein inhibition. *Oncoimmunology*. 2019;8(12):e1678921; doi: 10.1080/2162402X.2019.1678921
53. Fangusaro J, Witt O, Hernáiz Driever P, **Bag AK**, et al. Response Assessment in Pediatric Low-Grade Glioma: Recommendations from the Response Assessment in Pediatric Neuro-Oncology (RAPNO) Working Group. *Lancet Oncol*. 2020;21:e305-e316. doi:10.1016/S1470-2045(20)30064-4
54. Bernstock JD, **Bag A**, Fiveash J, et al. Design and Rationale for First-In-Human Phase 1 Immunovirotherapy Clinical Trial of Oncolytic HSV G207 to Treat Malignant Pediatric Cerebellar Brain Tumors [published online ahead of print, 2020 Jul 12]. *Hum Gene Ther*. 2020;10.1089/hum.2020.101. doi:10.1089/hum.2020.101
55. Bhoopalan SV, Campbell PK, **Bag AK**, Onciu M, Srinivasan A. Haemophagocytic lymphohistiocytosis restricted to the central nervous system. published online ahead of print, 2020 Sep 9]. *Arch Dis Child*. 2020; doi:10.1136/archdischild-2020-319088
56. Friedman GK, Johnston JM, **Bag AK**, Bernstock JD, et al.. Oncolytic HSV-1 G207 Immunovirotherapy for Pediatric High-Grade Gliomas. *N Engl J Med*. 2021 Apr 29;384(17):1613-1622. doi: 10.1056/NEJMoa2024947. Epub 2021 Apr 10. PMID: 33838625.
57. **Bag AK**, Chiang J, Patay Z. Radiohistogenomics of Pediatric Low-Grade Neuroepithelial Tumors. *Neuroradiology*. 2021 Aug;63(8):1185-1213. doi: 10.1007/s00234-021-02691-1
58. Ramirez N, Keenan C, Klimo P, **Bag AK**, Acharya S, ELijovich L, Upadhyaya. A rare manifestation of choriocarcinoma syndrome in a child with intra-cranial metastatic germ cell tumor: Case report and review of literature. *Pediatr Blood Cancer*. DOI: 10.1002/pbc.29000
59. **Bag AK**, Wing MN, Sabin ND, Hwang SN, Armstrong GT, Han Y, Li Y, Snyder S, Robinson GW, Qaddoumi I, Broniscer A, Lucas JT, Shulkin BL. [11C]-Methionine PET for Identification of Pediatric High-Grade Glioma Recurrence. *J Nucl Med*. 2021 Aug 26;jnumed.120.261891. doi: 10.2967/jnumed.120.261891. Epub ahead of print. PMID: 34446453.

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62. Li X, Moreira DC, **Bag AK**, Qaddoumi I, Acharya S, Chiang J. The clinical and molecular characteristics of progressive hypothalamic/optic pathway pilocytic astrocytoma. *Neuro Oncol.* 2022 Oct 19:noac241. doi: 10.1093/neuonc/noac241. Epub ahead of print. PMID: 36260562.
63. Rogers SN, Udayasankar U, Pruthi S, Lai HA, Kadom N, Guerin J, Malinzak M, Shulkin BL, Poussaint TY, Patay Z, **Bag AK**. Imaging of Pediatric Spine and Spinal Cord Tumors: A COG Diagnostic Imaging Committee/SPR Oncology Committee/ASPNR White Paper. *Pediatr Blood Cancer.* DOI: 10.1002/pbc.30150
64. Alom Z, Tran Q, **Bag AK**, Lucas JT., Orr BA. Predicting methylation class from diffusely infiltrating adult gliomas using multi-modality MRI data. (Provisionally accepted *Adv. in Neuro-Oncology*)

ii. Book Chapters and Monographs

1. **Bag AK**, Sullivan JC. Cerebrovascular Anatomy. In: McGraw-Hill Specialty Board Review: Radiology. 1st Ed: Canon CL. 1st Ed. . New York: McGraw-Hill Professional; 2009:28-36 (<http://www.mhprofessional.com/product.php?cat=116&isbn=0071601643&cat=116>).
2. **Bag AK**, Sullivan JC. Central Nervous System Neoplasms. In: McGraw-Hill Specialty Board Review: Radiology. Ed: Canon CL. 1st Ed. New York: McGraw-Hill Professional; 2009:63-76 (<http://www.mhprofessional.com/product.php?cat=116&isbn=0071601643&cat=116>).
3. **Bag AK**, Sullivan JC. Head and neck Pathologies. In: McGraw-Hill Specialty Board Review: Radiology. 1st Ed: Canon CL. 1st ed. New York: McGraw-Hill Professional; 2009:114-132 (<http://www.mhprofessional.com/product.php?cat=116&isbn=0071601643&cat=116>).
4. **Bag AK**, Ellika S, Vattoth S. CNS infections. In: Multi-Detector CT Imaging: Principles, Head, Neck and Vascular. 1st Ed: Saba L and Suri JS. CRC Press. 2013:227-56
5. **Bag AK**, Curé JK, Chapman PR. Neurodegenerative diseases. In: Multi-Detector CT Imaging: Principles, Head, Neck and Vascular. 1st Ed: Saba L and Suri JS. CRC Press. 2013:207-26.
6. **Bag AK**, Ellika S, Vattoth S. Central Nervous System Infection. In: Saba L and Suri JS, eds., Multi-Detector CT Imaging Multi-Detector CT Imaging: Principles, Head, Neck and Vascular. 1st Ed: Saba L CRC Press. 2013:229-258.
7. **Bag AK**, Almodovar SE. Metabolic imaging: PET and SPECT. In: Brain Tumor Imaging. 1st Ed: Jain R and Essig M. Thieme Publication, New York. 2015: 1.
8. Goldmacher D, **Bag AK**, Lyerly M. Spinal cord vascular disease. In: Bradley's Neurology in Clinical Practice. 7th Eds: Daroff RB, Mazziotta, JC. Saunders, London, 2016; 1007-1014
9. Goldmacher D, **Bag AK**, Lyerly M. Spinal cord vascular disease. In: Bradley's Neurology in Clinical Practice. 7th Eds: Daroff RB, Mazziotta, JC. Saunders, London, 2020;

iii. Book, Editor

1. Advanced Neuroradiology cases: Challenge your knowledge series. Adult Brain Eds.: Amaral LF, **Bag AK**, Goncalves FG, Hanagandi P. 1st ed. March 2017. Cambridge University Press, Cambridge, UK

iv. Abstracts

1. **Bag AK**, Adhikari A, Manna AK. Clinico-Radiological Profile of Macrodystrophia Lipomatosa: A case report. Presented in: 57th Annual Conference of Indian Radiological Imaging Association. Hyderabad, India. January 2004.
2. **Bag AK**, Manna AK, Adhikari A, Saha B, Guha SK, Pramanik N, Goswami RP; Percutaneous Aspiration, Infusion Of Scolicidal Agent And Respiration(PAIR) Versus Albendazole Therapy In Hepatic Cystic Echinococcosis- A Recent Experience From Eastern India: Presented In: 14th Biennial Conference, Asian Pacific Association for the Study of the Liver. New Delhi, India. December 2004.
3. Kolieskova S, **Bag AK**, Barlinn K, Boehme AK, Samal AA, Kepplinger J, Kesani M, Cava LF, Chaudhary AA, Albright KC, Alexandrov AV. Blooming Artifact on GRE-MRI as Predictor of Hemorrhagic Transformation and Poor Outcomes after Ischemic Stroke. Presented In: XXI European Stroke conference. Lisbon, Portugal, May 2012
4. Kolieskova S, **Bag AK**, Barlinn K, Boehme AK, Samal AA, Kepplinger J, Kesani M, Cava LF, Chaudhary AA, Boehme AK, Diggs P, Shahripour RB, Sisson A, Fowler B, Alexandrov AW, Albright KC, Alexandrov AV. Hyperdense Middle Cerebral Artery Hounsfield Units Predict Early Recanalization in Patients with Acute Ischemic Stroke. XXI European Stroke conference. Lisbon, Portugal. May 2012.
5. **Bag AK**, Curé JK. Pictorial Essay of MR Imaging Findings of Progressive Multifocal Leukoencephalopathy. 46th Annual Meeting of the ASNR. New Orleans, LA. June 2008.
6. **Bag AK**, Roberson G, Chapman P, Wallace E. Fulminant Invasive Mucormycosis of the Suprahyoid Neck: A Case Report. Presented in 43rd Annual Meeting of the ASHNR. New Orleans, LA. October 2009.
7. Hackney JR, Riley KO, Vaphiades M, **Bag AK**, Palmer CA. Pituitary Adenoma Complicated by Multifocal Fibrosclerosis Involving Sella and Retroperitoneum. Annual Meeting of the AAN. Honolulu, HI, April 2011.
8. **Bag AK**, Subedi SK, White SL, Yester MV, Bhambhani PG, Baldwin JA, Vattoth S, Curé JK, Sullivan JC, O'Malley JP. Is there a role of diagnostic CT scan of the neck obtained at the same time as PET/CT in evaluation of lymphoma patients? Annual Meeting of the SNM. San Antonio, TX. June 2011.
9. Clayton R, Carlisle J, **Bag AK**, Popple R. Contouring Challenges in Radiation Oncology: Delineating the Optic Chiasm. Annual meeting of ASTRO. Chicago, IL; June 2016
10. Telford R, Patel A, Roberson Gr, **Bag AK**. Ipilimumab induced hypophysitis. Annual meeting of Endocrine Society. Boston, MA; April 2016
11. Cezayirili P, Nabors LB, **Bag AK**. Glioblastoma Multiforme Patient Prognosis: Can Change in Peritumoral Cerebral Blood Flow Predict Survival? Medical Student Research Day. Birmingham, AL. October 2011
12. Telford R, Patel A, Roberson Gr, **Bag AK**. Ipilimumab induced hypophysitis. Research and Innovations in Medical Education Poster Session. UAB Department of Medicine. Birmingham, AL. September 2015
13. Evans JM, Wever D, Warren PP, Jackson B, **Bag AK**. Fractional tumor burden calculation using perfusion MRI can predict progression-free survival and overall survival in glioblastoma multiforme patients treated with bevacizumab. Dale J. Benos Medical Student Research Day. October 2015
14. Bag AK, Li R, Gillespie Y, Markert J, Johnston J, Friedman G. Proliferation index influences initial response pattern of pediatric high-grade gliomas treated with HSV-1 G207 oncolytic virotherapy. UAB Comprehensive Cancer Center Retreat. Birmingham, AL. October 2017.
15. **Bag AK**, Curé JK, Roberson GH, Abdel Aal AK. Midline Nasal Masses of Early Childhood: Embryologic

Basis. Presented in: 46th Annual Meeting of ASHNR. New Orleans, LA. June 2008.

16. **Bag AK**, Roberson GH. Review of Principles MR Imaging of Solutions Containing Increasingly High Concentration of Protein and Its Significance in Imaging of Inflammatory Sinonasal Diseases. Presented in: 46th Annual Meeting of the ASNR. New Orleans, LA. June 2008. **(Won invitation for repeat presentation in the Scientific Assembly and Annual Meeting of from the ASHNR)**
17. **Bag AK**, Roberson GH. Spectrum of Spinal Epidural Abscesses. Presented in: 46th Annual Meeting of ASNR. New Orleans, LA. June 2008.
18. **Bag AK**, Raghuram K. Pictorial Essay of MR Imaging Findings of PRES. Presented in: 47th Annual Meeting of ASNR. Vancouver, Canada. May 2009.
19. Raghuram K, **Bag AK**, Raghavan P, Abdel-AI AK. Restricted Diffusion in the Thalamus in Patients with Seizures. Presented in: 47th Annual Meeting of the ASNR. Vancouver, Canada. May 2009.
20. **Bag AK**, Curé JK, Shah R, Chapman P. The Petrous Apex: Radiological Approach. Presented in 43rd Annual Meeting of the ASHNR. New Orleans, LA. October 2009.
21. **Bag AK**, Shah R, Curé JK. Hard “rock” to crack?: A Pictorial Essay of Normal Variants and Pathologies of The Petrous Apex. Presented in 95th Scientific Assembly and Annual Meeting of RSNA. Chicago, IL. November 2009.
22. **Bag AK**, Shah R, Curé JK. Mystery of the "Crooked Smile: Differential Diagnosis of Facial Nerve Palsy. Presented in 95th Scientific Assembly and Annual Meeting of RSNA. Chicago, IL. November 2009 **(Won invitation for repeat presentation in the Scientific Assembly and Annual Meeting of the ASHNR).**
23. **Bag AK**, Shah R, Curé JK. Idiopathic Orbital Inflammatory Syndrome (IOIS): A Pictorial Review. Presented in 95th Scientific Assembly and Annual Meeting of RSNA. Chicago, IL. November 2009.
24. **Bag AK**, Chapman P. Pictorial Review of Anatomy of Lumbo-sacral Plexus and Introduction of new “L5 Nerve Root Sign. Presented in 95th Scientific Assembly and Annual Meeting of RSNA. Chicago, IL. November 2009.
25. Shah R, **Bag AK**, Riley KO, Curé JK. Pituitary apoplexy and its mimics. Presented in: 48th Annual Conference of ASNR. Boston, MA. May 2010.
26. **Bag AK**, Curé JK, Shah R. Many faces of CNS lymphoma. Presented in: 48th Annual Conference of ASNR. Boston, MA. May 2010.
27. Abdel-aal AK, **Bag AK**, Pearce J, Shah R, Raghuram K, Curé JK, Roberson GH. Clinico-radiological approach to basal ganglia lesions. Presented in: 96th Scientific Assembly and Annual Meeting of RSNA. Chicago, IL. November 2010. **(Winner of “Certificate of Merit” Award).**
28. Dunnavant F, Patel BN, **Bag AK**, Abdel-Aal AK, Curé JK, Chapman PR. A closer look at the optic pathway: an anatomic & pathologic pictorial review. Accepted for: Annual Meeting of the ARRS. Chicago, IL. May 2011.
29. Palot-Manzil F, Bhambhani P, Baldwin J, O'Malley J, White S, Dubovsky E, Bryant B, **Bag AK**. All You Need to Know as a Responsible Authorized User. 98th Scientific Assembly and Annual Meeting RSNA. Chicago, IL. November 2012. **(Won invitation for publication in AJR Am J Roentgenol.)**
30. Gebhardt BJ, Dobelbower MC, **Bag AK**, Market JM, Nabors LB, Fiveash JB. Patterns of failure for glioblastoma multiforme following limited-margin radiation and concurrent temozolomide. 95th Annual Meeting of the American Radium Society. Scottsdale, AZ. April 2013.
31. Palot-Manzil FF, Baldwin J, Young D, **Bag AK**. Pediatric Skeletal Scintigraphy: What a General Radiologist Needs to Know. Annual Meeting of the ARRS. Washington DC, April 2013.
32. Pettibon K, Curé JK, Chapman PR, Bhambhani P, Roy R, **Bag AK**. All you need to know about the anatomy and pathology of the parotid gland. 99th Scientific Assembly and Annual Meeting RSNA. Chicago, IL. November 2013. **(Won invitation for publication in Curr Probl Diagn Radiol.)**

33. Bag AK, Curé JK, Singhal A, Wever D. Imaging of bevacizumab treated brain: traditional and emerging concepts. Presented in: 53rd Annual Meeting of the ASNR. Chicago, IL. April 2015.
34. Hanagandi P, Bag AK, Amaral LF. Acquired Focal and Diffuse White Matter Pathologies -A Practical approach to Radiologist's Dilemma. Role of Multimodality Imaging, Histopathology and Laboratory correlation. Presented in: 53rd Annual Meeting of the ASNR. Chicago, IL. April 2015.
35. R. Clayton, J. Carlisle, B. Asim, and R.A. Popple; Contouring Challenges in Radiation Oncology: Delineating the Optic Chiasm. Annual meeting of the American Society for Radiation Oncology. Boston, MA 2016
36. Faulkner, A, Bag AK. Imaging aging brain. Presented in: 56th Annual Meeting of the ASNR. Vancouver, BC. June 2018. (**Won invitation for publication in *Neurographics*.**)
36. Fathallah-Shaykh H, Nabors LB, DeAtkins A, Bag A, Bredel M, Warren P, Han X, Bouaynaya N. Segmentation and volumetric analysis improves detection of progression in low grade Gliomas. Presented in 23rd Annual Meeting of Society of Neurooncology. New Orleans, LA, Nov 2018
37. Friedman GK, Johnston JM, **Bag AK**, Fiveash JB et al. Phase I immunovirotherapy trial of oncolytic HSV-1 G207 alone or combined with radiation in pediatric high-grade glioma. AACR 2021
38. Ramirez N, Keenan C, Klimo P, Bag AK, Acharya S, ELijovich L, Upadhyaya. Co-existing arteriovenous fistula in a child with suprasellar germ cell tumor- Case report. ASPHO 2021
39. Fabrício Guimarães Gonçalves, Luis O. Tierradentro-Garcia, Alireza Zandifar, Jorge Du Ub Kim, Adarsh Ghosh, Asim K. Bag, Amna Kashgari, Christine Saint-Martin, Mahyar Mohammadifard, Sharath Kumar G G, Cesar Alves, Sara Teixeira, Angela N. Viaene, Kristen W Yeom, Savvas Andronikou, Arastoo VossoughWhat is under the tent? Posterior fossa tumors in children, beyond the "usual suspects". ASNR 2021
40. Canale M, Chapman L, Chiang J, **Bag AK**, Gajjar A, Upadhyaya S. A case series of positive outcomes in neonatal malignant brain tumor. ASPHO 2022
41. Epperly R, Shulkin BL, **Bag A**, Cheng C, Naik S, Inaba H, Triplett BM, Gottschalk S, Talleur AC. Activity of CD19-CAR T Cell Therapy Against Extramedullary Disease in Pediatric Patients with B-ALL. 2023 Tandem Meetings, Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR. Orlando FL. Jan 2023
42. Pinto S, Talleur A, Martin J, Geng M, Tamrazi, B, Liu C, .Bag, AK.ADC can detect CD19 CAR T-cell therapy induced altered brain microstructure. ASPNR 2023

12. Presentations

i. Oral Presentations in National and International Conferences

1. Dhibar T, Ghorai PK, **Bag AK**, Khandelwall V, Adak T, Bhattacharaya C, Das R. Neuroradiological Profile of Remote Symptomatic Seizure Disorders. International League Against Epilepsy: 5th Asian & Oceanian Epilepsy Congress. Bangkok, Thailand. August 2004.
2. **Bag AK**, Manna AK, Adhikari AK, Bhadra A, Samanta SB. Changing Role of Radiologists in the Management of Hepatic Cystic Echinococcosis. Annual Conference of 59th Indian Radiological Imaging Association. Chennai, India. January 2006.
3. Invitation for presentation in the Scientific Assembly and Annual Meeting of American Society of Head and Neck Radiology (ASHNR). 2009.
4. Invitation for presentation in the Scientific Assembly and Annual Meeting of ASHNR
Recipient of "Radiology Society North America Certificate of Merit" citation in recognition of the excellence of the educational exhibit named "Clinico-radiological Approach to Bilateral Basal Ganglia Lesions" presented at the 96th Scientific Assembly and Annual Meeting of the Radiology Society of North America. 2009.

5. Invitation for presentation in the Scientific Assembly and Annual Meeting of ASHNR. 2010.
6. Roberson GH, **Bag AK**, Patel BN. Clinicoradiological profile of spinal cord multiple sclerosis. XIX Symposium Neuroradiologicum, World Federation of Neurological Sciences. Bologna, Italy. October 2010.
7. Reddy AT, Johnston JM, Madan-Swain A, Fiveash JB, **Bag AK**, Gillespie Y, Markert JM, Friedman GK. Phase I Clinical Trial of HSV G207 Alone or with a Single Radiation Dose in Children with Recurrent Supratentorial Brain Tumors (NCT02457845). International Symposium on Pediatric Neuro-Oncology. Liverpool, UK; June 2016.
8. **Bag AK**, R Shah, P Chapman, G Roberson. Magnetic Properties of Protein Containing Solution: Significance in Imaging of Sinonasal Infections. 43rd Annual Meeting of ASHNR. New Orleans, LA, October 2009.
9. **Bag AK**, GH Roberson. Is There a Need for Sagittal and Coronal Reformatted Images of Noncontrast Head CT in Head Injury Patients? Presented in: 48th Annual Conference of ASNR. Boston, MA. May 2010.
10. JA Baldwin, JC Sullivan, P Bhambhvani, FF Palot-Manzil, **Bag AK**. I-131 Therapy and Authorized User Training: Creating Competent Authorized Users. Annual Meeting of the Association of University Radiologists. San Antonio, TX. March 2012.
11. **Bag AK**, PR Chapman, JK Cure, A Zaza. Shrinkage of the petrous carotid canal following application of Selverstone clamps. 51st Annual Meeting of ASNR. San Diego. May 2013.
12. Bag AK. MR Imaging of Head and Neck: A case review. Annual Meeting of Society of Nuclear Medicine and Molecular Imaging. Baltimore, MD. June 2015
13. Triche B, Hosch R, **Bag AK**. Prediction of Pattern of Progression and Time to Progression in Recurrent Primary Glioblastoma Multiforme Treated With Bevacizumab. Applied for 54th Annual Meeting of ASNR. Washington, DC. May 2016.
14. Holdhoff M, Lodge MA, **Bag AK**, Nabors LB, Mintz A, Lesser GJ, Mankoff DA, Desai AS, Lieberman FS, Leal J, Fisher JD, Desideri S, Ye X, Grossman SA, Schiff D, Wahl RL: Results Of Exploratory 18f-Flt Pet Imaging In Ten Recurrent High-Grade Glioma Patients Treated With The Selective T-Type Calcium Channel Blocker Mibefradil Followed By Temozolomide (ABTC Trial 1101). Annual Meeting of Society of Neurooncology. Huston, Texas. November 2015.
15. **Bag AK**. MR Imaging of Head and Neck: A case review. Annual Meeting of Society of Nuclear Medicine and Molecular Imaging. San Diego, CA. June 2016
16. **Bag AK**, Li R, Gillespie Y, Markert J, Johnston J, Friedman G. Proliferation index influences initial response pattern of pediatric high-grade gliomas treated with HSV-1 G207 oncolytic virotherapy. Presented in 22nd Annual Meeting of Society of Neurooncology. San Francisco, CA, 2017
17. **Bag AK**, Li R, Osorio D, Hukin J, Martin A, Pastakia D, Karajannis M, Gillespie, Y, Markert J, Johnston J, Friedman G. Proliferative Index influences early radiologic response pattern of pediatric high-grade recurrent gliomas treated with HSV-1 G207 oncolytic immunovirotherapy. Presented in Annual meeting of ASNR. Vancouver, BC 2018.
18. Friedman G, **Bag AK**, Madan-Swain A, Li R, Kachurak K, Osorio D, Hukin J, Martin A, Pastakia D, Karajannis M, Bernstock J, Fiveash J, Reddy A, Whitley R, Gillespie Y, Markert J, Johnston J. Phase I trial (NCT02457845) safety, tolerability and preliminary efficacy of immunovirotherapy with hsv G207 in children with progressive malignant supratentorial brain tumors. Presented in 18th International Symposium on Pediatric Neurooncology. Denver, CO. Annual meeting of ASNR. Jun 2018.
19. Fangusaro J, Witt O, Hernáiz Driever P, **Bag AK**, et al. Response Assessment in Pediatric Low-Grade Glioma: Recommendations from the Response Assessment in Pediatric Neuro-Oncology (RAPNO) Working Group. ISPNO 2020
20. Friedman GK, Johnston JM, **Bag AK**, Bernstock, JD, Li Rong, et al. Phase I immunovirotherapy trial of oncolytic HSV-1 G207 alone or combined with radiation in pediatric high-grade glioma. AACR 2021

21. Vinitzky A, Chiang A, **Bag AK**, Campagne O, et al. SJ901: Phase I/II Evaluation of Single Agent Mirdametinib (PD-0325901), a Brain-Penetrant MEK1/2 Inhibitor, for the Treatment of Children, Adolescents, and Young Adults with Low-Grade Glioma (LGG). ISPNO 2022
22. **Bag AK**, Holtrop J, Scoggins MA, et al. Novel persistent tumor index to predict survival in pediatric high-grade gliomas treated with immunovirotherapy. ISMRM 2022
23. Holtrop J, Glass JO, McAfee S, Zhang S, Scoggins M, Gajjar A, Robinson R, Reddick WE, **Bag AK**. Cerebellar damage, by medulloblastoma and related surgery, induces global cerebral microstructural abnormalities. ISMRM 2022
24. Ji Q, Khan RB, Yuan X, Li Y, McAfee S, Reddick W, Scoggins M, Bag AK, Patay, Z. Neurological Manifestations of Postoperative Cerebellar Mutism Syndrome in Pediatric Patients with Medulloblastoma are Strongly Associated with Disruption of the Dentato-Thalamo-Cortical Pathway: A Diffusion Tractography Study. Presented in Annual Meeting of Posterior Fossa Society. Liverpool, UK. September 2022

ii. Major lectures and visiting professorships

International

1. Imaging of aging brain. Radiology Society of Brasilia. Brasilia, Brazil; September 2017
2. Neuroanatomy of higher functions. Radiology Society of Brasilia. Brasilia, Brazil; September 2017
3. Molecular imaging of neurodegenerative diseases. Radiology Society of Brasilia. Brasilia, Brazil; September 2017
4. Dementia: Role of Imaging. Radiology Society of Brasilia. Brasilia, Brazil; September 2017
5. Movement disorders: Role of Imaging. Radiology Society of Brasilia. Brasilia, Brazil; September 2017
6. Radiologic approach to diagnosis of neurodegenerative diseases. Radiology Society of Brasilia. Brasilia, Brazil; September 2017
7. "Response Assessment of Pediatric Low-Grade Gliomas". National Childhood Cancer Center, Shanghai, February, 2021

National

1. Imaging of Progressive Multifocal Leukoencephalopathy. Invited online presentation for the American Society of Neuroradiology online NeuroCurriculum Live course. Available at www.asnr.org/Bag
2. Invited faculty: CT and MRI Case-Based Neuroradiology Course, 2015 Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging (SNMMI). Baltimore MD.
June 2015
3. Invited faculty: CT and MRI Case-Based Neuroradiology Course, 2016 Annual Meeting of the Society of Nuclear Medicine and Molecular Imaging (SNMMI). San Diego, CA. June 2016

Regional:

1. MR perfusion imaging in acute stroke. Grand Rounds: Department of Neurology. UAB. Birmingham, AL. October 2007
2. Imaging of Lesions of Petrous Apex & Adjacent Skull Base. Grand Rounds: Department of Otolaryngology. UAB. Birmingham, AL. March 2010

3. Imaging of Brain Tumors. Special Lecture Series for Resident Education. Department of Radiation Oncology. UAB. Birmingham, AL. June 2011
4. Imaging of Lesions of Petrous Apex & Adjacent Skull Base. Grand Round: Department of Otolaryngology. UAB. Birmingham, AL. March 2012
5. Imaging of perineural tumor spread. Grand Round: Department of Otolaryngology, UAB. Birmingham, AL. March 2013
6. Imaging radiation necrosis. Special Lecture Series for Resident Education. Department of Radiation Oncology. UAB. Birmingham, AL. March 2014
7. Imaging of perineural tumor spread. Grand Round: Department of Otolaryngology, UAB. Birmingham, AL. August 2014
8. Imaging of perineural tumor spread. Grand Round: Department of Otolaryngology, UAB. Birmingham, AL. Sept. 2015.
9. Imaging of Aging Brain. Department of Neurology. UAB. Birmingham, AL. October 2017
10. Imaging of Movement disorder. Department of Neurology. UAB. Birmingham, AL. 2017
11. Imaging Pediatric Low Grade Gliomas. Grand round. Department of Radiology, Duke Medical Center June 2021
12. Genomic Landscape of Pediatric Brain Tumors. Society of South Eastern Neuroradiology. Destin, FL. October, 2021