



# The University of Texas at Austin Dell Medical School

Chang Y. Ho, MD

Dell Children's Medical Center,  
Imaging Center  
4900 Mueller Blvd  
Austin, TX 78723

Re: ASPNR Senior At Large Position

Dear ASPNR Board Members,

I respectfully submit my nomination to be considered for the ASPNR Senior At Large position. I completed my neuroradiology fellowship at Indiana University in 2006 and have been working exclusively in a quaternary children's hospital since 2007. I served as the director of pediatric neuroradiology at Riley Children's Hospital, Indianapolis, from June 2008 until June 2022 and am currently serving as Pediatric Neuroradiology Director at Dell Children's Medical Center, Austin, TX.

January has become a favorite month of mine as I love to participate in the ASPNR annual meeting. Pediatric neuroradiologists are a rare breed, and the opportunity to attend a meeting where I get to meet and acquaint myself with like-minded colleagues is a highlight and priority of the year. I remember fondly the 2019 inaugural event in New Orleans, as I had the privilege of lecturing on perfusion imaging in pediatric brain tumors. I have also had the recurring privilege to give talks on other topics such as the spectrum of tubulinopathies in 2020, the follow-up of perfusion imaging in pediatric brain tumors in 2022, and I am excited to accept the opportunity to speak again in 2024 on the classification of malformations in cortical development.

In addition to moderating at the 2023 annual meeting, I have served on numerous ASPNR committees in the past, including the publication committee from 2015-2018 where I served as guest editor for an AJNR news digest "In Search of Radiographic Quantitative Data for Pediatric Brain Tumors," the Gold Medal committee from 2019-2021 and the Research Committee from 2015 to present. It has been a pleasure to work with colleagues all over the nation on important areas that both promote the society and our field.

Since I recently moved to Austin, TX and switched jobs, I resigned as division chief of neuroradiology at IU. This allows me more time to help use the administrative skills I have acquired to contribute as an At Large Member of the Board at ASPNR. I would appreciate the chance to be more involved with the planning and behind the scenes work that goes into making the annual ASPNR meeting such a success. If elected, I would be honored to continue to build on the great work that the previous leaders have paved for us.

Sincerely,

Chang Y. Ho, M.D. | [chang.ho@austin.utexas.edu](mailto:chang.ho@austin.utexas.edu)

Director of Pediatric Neuroradiology, Dell Children's  
Director, GME External Experiences  
Associate Professor of Medicine  
Department of Diagnostic Medicine  
University of Texas at Austin Dell Medical School

Department of Diagnostic Medicine,  
Dell Medical School  
1601 Trinity St., Bldg. B, Stop Z0300  
Austin, TX 78712  
512-495-5288  
[diagnosticmedicine@dellmed.utexas.edu](mailto:diagnosticmedicine@dellmed.utexas.edu)

**Chang Ho, M.D.**

Department of Diagnostic Medicine – Division of Radiology  
University of Texas at Austin – Dell Medical School  
3201 Skylark DR  
Austin, TX 78757  
(317) 313-1580  
changsterho@live.com

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**Education**

M.D., University of Texas Medical Branch, Galveston, TX	07/96 to 06/00
B.A., Biology with Special Honors in Zoology – Magna Cum Laude, University of Texas, Austin, TX	08/92 to 05/96

**Postdoctoral Training**

Neuroradiology Fellowship, Indiana University School of Medicine, Indianapolis, IN	07/05 to 06/06
Diagnostic Radiology Residency, Indiana University School of Medicine, Indianapolis, IN	07/01 to 06/05
Preliminary Medicine Internship, Indiana University School of Medicine, Indianapolis, IN	07/00 to 06/01

**Licensure**

Texas, License number, T9128, Exp. 8/31/2024  
Indiana, License number, 01060899A Exp. 10/31/23

**Board Certification**

American Board of Radiology, Neuroradiology, 11/05/07  
exp. 03/01/2024  
American Board of Radiology, Diagnostic Radiology, 06/08/05  
exp. 03/01/2024

## Academic and Leadership Appointments

Associate Professor of Medicine Department of Diagnostic Medicine Dell Medical School, Austin, TX	11/22 to current
Pediatric Neuroradiology Director Dell Childrens Medical Center, Austin, TX	11/22 to current
Medical Director, Biomedical Imaging Center, University of Texas at Austin	11/22 to current
Associate Professor of Clinical Radiology Department of Radiology, Indiana University School of Medicine, Indianapolis, IN	06/19 to current
Division Chief of Neuroradiology Department of Radiology, Indiana University School of Medicine, Indianapolis, IN	11/16 to 06/22
Clinical Director of Pediatric Neuroradiology Riley Children's Hospital, Indianapolis, IN	06/08 to 06/22
Assistant Professor of Clinical Radiology Department of Radiology, Indiana University School of Medicine, Indianapolis, IN	08/06 to 06/19

## Employment and Clinical Activities

Austin Radiological Associates Associate Radiologist Austin, TX	08/22 to current
Indiana University Health Physicians, Department of Radiology Indiana University Health Hospitals, City Indianapolis, IN	08/06 to current

## Honors and Awards

2 <sup>nd</sup> Annual Meeting of the American Society for Pediatric Neuroradiology. Cum Laude: Kushdilian M, Acchiardo J, Ho CY, Radhakrishnan R. Morning Glory Disc Anomaly: More than Meets the Eye. American Society for Pediatric Neuroradiology 2nd Annual Meeting January 10-12, 2020, Miami Beach, FL.	01/20
Unmet Patient Needs Award - 3 <sup>rd</sup> place award (Indiana University Department of Radiology) Differentiating Subdural Hematomas in Enlarging Subarachnoid Spaces of Infancy from Child Abuse	01/16
Campbell-Klatte Radiology Lecture Series – Best Presentation	04/11

(Indiana University Department of Radiology)  
Barad, Udaykamal; **Ho, Chang**. Predicting Clinical Outcomes with  
Magnetic Resonance Spectroscopy in Neonates with Hypoxic Ischemic Encephalopathy.

109th Annual Meeting of the American Roentgen Ray Society, Award of Merit: 04/09  
Douglas-Akinwande AC; Brown K M, Jennings SG, **Ho C Y**.  
Evaluation of a Metal Artifact Correction Technique on Computed Tomographic Imaging in  
Neuroradiology: Preliminary results.

British Medical Association Medical Book Awards 2018 Highly Commended, Radiology: 09/18  
Jhaveri, Miral; Salzman, Karen; Ross Jeffrey; Moore, Kevin; Osborn, Ann; **Ho, Chang**. (2018)  
Expert DDX Brain and Spine. 2nd Edition. Philadelphia: Elsevier. ISBN: 9780323443081

### **Professional Memberships and Activities with Leadership Positions**

American Society of Pediatric Neuroradiology 05/15 to current  
Member, Gold Medal Committee (2019 to 2021)  
Member, Research Committee (2015 to current)  
Member, Publication Committee (2015-2018)  
Moderator (annual meeting 1/14/2023)

American Society of Neuroradiology 05/15 to current  
Member, Division Chief Committee (2019 to current)  
Member, Education Committee (2018 to 2021)  
Moderator (04/17)

American Roentgen Ray Society 2011 to 2017  
Member, Scientific Program Abstract Reviewer (2011-2017)

### **Professional Development**

Leadership Development Series, Indiana University Department of Radiology 07/18 to 06/22  
Philips Academic Faculty Development Program 05/09  
Association of University Radiologists  
Faculty Development Course, Indiana University Department of Radiology 07/09 to 06/10  
Leadership in Academic Medicine, Indiana University School of Medicine 09/08 to 04/09

### **Educational Activities**

#### **Educational Administration and Leadership**

Director, External GME Educational Experiences 11/22 to current  
Department of Diagnostic Medicine  
Dell Medical School, Austin, TX

Member, Neuroradiology Fellowship Clinical Competence Committee 06/15 to 06/22  
Department of Radiology,  
Indiana University School of Medicine, Indianapolis, IN

Revised: [DATE]

Member, Neuroradiology Fellowship Program Evaluation Committee  
Department of Radiology,  
Indiana University School of Medicine, Indianapolis, IN 06/15 to 06/22

Founding Fellowship Director, Pediatric Neuroradiology  
Department of Radiology,  
Indiana University School of Medicine, Indianapolis, IN 06/09 to 06/22

Fellowship Director, Advanced Neuroradiology  
Department of Radiology,  
Indiana University School of Medicine, Indianapolis, IN 06/08 to 06/15

Fellowship Director, ACGME Neuroradiology  
Department of Radiology,  
Indiana University School of Medicine, Indianapolis, IN 06/08 to 06/15

### **Teaching Activities**

Diagnostic Medicine Radiology Residency Lectures, 9 students 11/22 to current

Lecture Titles:

Pediatric Brain Tumors  
Pediatric Neuroradiology Board Review

Neuroradiology Didactic Lecture, Lecturer, 10 Students, 06/08 to 06/22

Didactic Lecture Titles:

MRI Perfusion imaging  
Radiologic Neurogenetics of Epilepsy  
Neuroimaging of Neonatal Encephalopathy  
Pediatric White Matter Diseases  
Pediatric Neuroradiology Bread and Butter  
Supratentorial CNS Tumors  
Pediatric Supratentorial Tumors  
Phakomatoses  
Pediatric Sinuses and Nasal Cavity: Embryology and Disease  
Supratentorial Malformations  
The Temporal Bone and You  
Imaging of the Orbit  
Neuroradiology Lesion Descriptors for 1st Years

Radiology Noon Conference, Lecturer, 60 students, 06/06 to 06/22

Didactic Lecture Titles:

Pediatric White Matter Diseases  
Pediatric Supratentorial Tumors  
Phakomatoses  
Neuroradiology Lesion Descriptors for 1st Years  
Neuroradiology Board Review

**Clinical Teaching and Supervision**

Pediatric Neuro-oncology Conference, Presenter, Dell Children's Hospital 4 hours a month	11/22 to current
Child NICU Case Conference, Presenter, Riley Children's Hospital 1 hour a month	06/18 to 06/22
Child Epilepsy Conference, Presenter, Riley Children's Hospital 1 hour a month	06/18 to 06/22
Child CNS Tumor Board, Presenter, Riley Children's Hospital 1 hour a month	06/10 to 06/22
Child Abuse Case Conference, Presenter, Riley Children's Hospital	06/10 to 06/22
Neuroradiology Case Conference, Moderator, IU School of Medicine, 2 hours a month	06/06 to 06/22
Child Neurology Case Conference, Presenter, Riley Children's Hospital 1 hour a month	06/06 to 06/22
Instruction at the workstation, Instructor 2-3 hours a day	06/06 to 06/22

**Development of Curricula and Educational Materials**

Pediatric Neuroradiology Case- Based Learning and Curriculum  Organization and implementation of a repository of cases for must-know diagnoses for pediatric neuroradiology for trainees on monthly rotations at Riley Children's Hospital	06/17 to 06/22
Neuroradiology Didactic Lecture Curriculum  Creating and organization of didactic lecture topics and schedule for fellows and residents annually for the Neuroradiology Fellowship Program at IU school of Medicine	06/08 to 06/15

**Advising and Mentoring****Students**

Natsume Wu (Carmel High School '22), Project STEM, mentor	06/21
Ilhaam Mahoui, (Eman High School '21), Project STEM, mentor  Mahoui I, Persohn S, Ho CY, Territo P Quantifying Myelin Maturation in Healthy Babies. Project SEED Abstract session, July 18th, 2019, Indianapolis, IN	06/19
Meghana Sankar (IUPUI Freshman), Research advisor	06/18 to current
Eric Chen, (MSI), Indiana School of Medicine, Radiology research advisor	06/20 to 06/21

Tam LT, Yeom KW, Wright JN, Jaju A, Radmanesh A, Han M, Toescu S, Maleki M, Chen E, Champion A, Lai HA, Eghbal AA, Oztekin O, Mankad K, Hargrave D, Jacques TS, Goetti R, Lober RM, Cheshier SH, Napel S, Said M, Aquilina K, **Ho CY**, Monje M, Vitanza NA, Mattonen SA. MRI-based radiomics for prognosis of pediatric diffuse intrinsic pontine glioma: an international study. *Neurooncol Adv*. 2021 Mar 5;3(1):vdab042. doi: 10.1093/noajnl/vdab042.

Kristina Mulry, (MSIII), Indiana School of Medicine, Radiology and research advisor 06/18 to 03/19

Quon JL, Bala W, Chen LC, Wright J, Kim LH, Han M, Shpanskaya K, Lee EH, Tong E, Iv M, Seekins J, Lungren MP, Braun KRM, Poussaint TY, Laughlin S, Taylor MD, Lober RM, Vogel H, Fisher PG, Grant GA, Ramaswamy V, Vitanza NA, **Ho CY**, Edwards MSB, Cheshier SH, Yeom KW. Deep Learning for Pediatric Posterior Fossa Tumor Detection and Classification: A Multi-Institutional Study. *AJNR Am J Neuroradiol*. 2020 Sep;41(9):1718-1725. doi: 10.3174/ajnr.A6704. Epub 2020 Aug 13. PMID: 32816765; PMCID: PMC7583118

Parth Patel, (MSIII), Indiana School of Medicine, Radiology and research advisor 06/18 to 06/19

**Ho CY**, Supakul N, Patel PU, Seit V, Groswald M, Cardinal J, Lin C, Kralik SF. Differentiation of pilocytic and pilomyxoid astrocytomas using dynamic susceptibility contrast perfusion and diffusion weighted imaging. *Neuroradiology*. 2019 Nov 1. doi: 10.1007/s00234-019-02310-0. [Epub ahead of print]

Michael Groswald (MSIII), Indiana School of Medicine, Radiology and research advisor 04/18

**Ho C**, Seit V, Supakul N Groswald M et al. Perfusion and Diffusion Imaging in Distinguishing Pilocytic Versus Pilomyxoid Astrocytomas Above and Below the Tentorium. Indiana University Student Research Symposium April 2018

Nathaniel Beachy (MSIV), Indiana School of Medicine, advisor

Beachy N and **Ho CY** Radiographic Findings of Tuberous Sclerosis and Implications for Surgical Treatment of Epilepsy. American Society of Neuroradiology Annual Meeting April 2017, Long Beach, CA

Eric Tarkowski, (MSIV), Indiana School of Medicine, Radiology advisor 06/08 to 06/09

## Residents

Michael Kushdilian, MD Radiology research advisor 01/20

Kushdilian M, Acchiardo J, **Ho CY**, Radhakrishnan R. Morning Glory Disc Anomaly: More than Meets the Eye. American Society for Pediatric Neuroradiology 2nd Annual Meeting January 10-12, 2020, Miami Beach, FL.  
\*Cum Laude Award

Priya Rajagopalan, MBBS, Radiology research advisor 01/19

Rajagopalan P, Radhakrishnan R, Walsh L, Wu IC, **Ho CY**. Losin' the Tubulin: Imaging Tubulinopathies. American Society for Pediatric Neuroradiology 1st Annual Meeting January 18-20 2019, New Orleans, LA.

Mark Broadbent, MD, Radiology research advisor 04/15

**Ho C**, Broadbent M, Cardinal J, Kamer A, Kralik S. Dynamic Susceptibility Contrast Perfusion in Distinguishing the WNT Molecular Subgroup of Medulloblastomas. American Roentgen Ray Society Annual Meeting April 2015, Toronto, Canada

Grant Submission – American Society of Pediatric Neuroradiology

J Nathan Smith, MD, Radiology research advisor

04/15

**Ho CY**, Smith J, Kralik SF. Correlation of Traumatic Brain Injury Outcomes to Volumes of Parenchymal Injury and Extra-axial Hematomas in the Pediatric Population.

American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL

Campbell Klatte Radiology Lecture Series, May 2015, Indianapolis, IN

Whitney Finke, MD, Radiology research advisor

06/15 to 06/17

Kralik SF, Watson GA, Shih CS, **Ho CY**, Finke W, Buchsbaum J. Radiation-Induced Large Vessel Cerebral Vasculopathy in Pediatric Patients With Brain Tumors Treated With Proton Radiation Therapy. *Int J Radiat Oncol Biol Phys*. 2017 Nov 15;99(4):817-824. doi: 10.1016/j.ijrobp.2017.07.009. Epub 2017 Jul 12.

Finke W, Wu IC, **Ho CY**, Kralik SF. Second Opinion Interpretations of Head CTs in Patients with Suspected Nonaccidental Trauma. *Pediatr Radiol*. 2017 Jul;47(8):942-951. doi: 10.1007/s00247-017-3872-3. Epub 2017 May 11.

American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL

Finke W, Kralik S, **Ho C**. Fetal MRI Evaluation of Chiari 2 Malformation. American Roentgen Ray Society Annual Meeting April 2015, Toronto, Canada

Kralik SF, **Ho CY**, Finke W, Buchsbaum JC, Haskins CP, Shih CS. Radiation Necrosis in Pediatric Patients with Brain Tumors Treated with Proton Radiotherapy. *AJNR Am J Neuroradiol*. 2015 Aug;36(8):1572-8. doi:10.3174/ajnr.A4333. Epub 2015 Jul 2. PubMed PMID: 26138138

W Finke, **C Ho**, C Shih, S Kralik. Cerebral Necrosis in Pediatric Brain Tumor Patients Treated with Proton Radiotherapy.

American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada

Louis Moore, MD and Nishant Verma, MD, Radiology advisor

05/10

Neuroradiology cases, Superior Semicircular Canal Dehiscence, American Roentgen Ray Society Annual Meeting. May 2010, Chicago, IL

Neuroradiology cases, CNS Methotrexate toxicity, American Roentgen Ray Society Annual Meeting. May 2010, Chicago, IL

Kelly Horst, MD and Aziz Ahmed, MD, Radiology advisor

04/09

Neuroradiology cases, Multiple Sclerosis. American Roentgen Ray Society Annual Meeting. April 2009, Boston, MA

Neuroradiology cases, Posterior Reversible Encephalopathy Syndrome. American Roentgen Ray Society Annual Meeting. April 2009, Boston, MA

Neuroradiology cases, Otospongiosis/ Otosclerosis. American Roentgen Ray Society Annual Meeting. April 2009, Boston, MA

Neuroradiology cases, Progressive Supranuclear Palsy. American Roentgen Ray Society Annual Meeting. April 2009, Boston, MA



## Fellows

Benjamin Gray, MD, Research advisor

09/19 to 06/20

Gray B, Parker JG, Diller E, Wen Q, Wu YC, Anthony G, Territo P, **Ho CY**. Comparison of Diffusion and Perfusion Techniques in Differentiating High versus Low Grade Pediatric Brain Tumors. American Society of Neuroradiology Annual Meeting, June 2020.Virtual.

John Kindler, MD, Research advisor

09/19 to 06/20

Kindler J, **Ho CY**, Kralik S, Robertson K, Territo P. Image segmentation of plexiform neurofibromas from a deep neural network using multiple b-value diffusion data. American Society of Neuroradiology Annual Meeting, June 2020.Virtual.

Katie Traylor, MD, Research advisor

06/18 to 06/19

Traylor KS, Dodson S, Kralik SF, **Ho CY**, Radhakrishnan R. Pediatric inner ear anomalies in genetic syndromes and multisystem associations. Neurographics 2019 Jan accepted for publication

American Society for Head and Neck Radiology Annual Meeting September 2018, Savannah, GA

Vetana Seit, MD, Research advisor

09/17 to 06/18

**Ho C**, Seit V, Supakul N, Groswald M et al. Perfusion and Diffusion Imaging in Distinguishing Pilocytic Versus Piloxyoid Astrocytomas Above and Below the Tentorium.

Campbell Klatter Radiology Lecture series April 2018

American Society of Neuroradiology Annual Meeting June 2018, Vancouver, BC, Canada

William Fischer, MD, Research advisor

09/16 to 06/17

Fischer W and **Ho C**. Comparison of Image Quality in Pediatric Head Computed Tomography Reconstructed Using a Novel Contrast Enhancement Algorithm. Campbell Klatter Radiology Lecture Series, April 2017, Indianapolis, IN

Cynthia Fleming, MD, Advisor

09/14 to 06/15

Fleming C, Kralik SF, **Ho CY**. White Matter matters: Imaging Spectrum and Approach to Pediatric White Matter Diseases. Society of Pediatric Radiology Annual Meeting April 2015, Seattle, WA

Fleming C, **Ho CY**, Kralik SF. Back to the Back: Imaging Pearls of Common Pediatric Intramedullary Spinal Lesions. Society of Pediatric Radiology Annual Meeting April 2015, Seattle, WA

Mona Yasrebi, MD, Research advisor

09/14 to 06/15

**Ho CY**, Yasrebi M, Kralik SF, Supakul N, Hicks R, Harris M, Hibbard R. Preliminary findings comparing ultrafast MRI brain and conventional MRI brain techniques in the non-accidental trauma pediatric population.

American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL

Campbell Klatte Radiology Lecture Series, May 2015, Indianapolis, IN

James Alexander, MD, Advisor

09/14 to 06/15

J Alexander and **C Ho**. Diencephalic-Mesencephalic Junction Dysplasia.

American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL

Campbell Klatte Radiology Lecture Series, May 2015, Indianapolis, IN

Nucharin Supakul, MD, Research advisor

09/12 to 06/14

Supakul T, Kralik S, **Ho C**. Ectopic external auditory canal and ossicular formation in the oculo-auriculo-vertebral spectrum. *Pediatr Radiol*. 2014 Dec 6. [Epub ahead of print]

American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada

N Supakul, S Kralik, **C Ho**. Fetal MR Imaging Technique: What Are We Looking for? American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada

N Supakul, S Kralik, **C Ho**. Ultrafast MR Imaging Brain in Comparison with Head CT for the Diagnosis of Nonaccidental Trauma.

American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada

Campbell Klatte Radiology Lecture Series, April 2014, Indianapolis, IN

N Supakul, S Kralik, **C Ho**. Congenital Brain and Spine Anomalies: Detection with Fetal MR Imaging and Postnatal Correlation.

American Society of Neuroradiology Annual Meeting May 2013, San Diego, CA

Campbell Klatte Radiology Lecture Series, April 2012, Indianapolis, IN

Jeremy Cardinal, MD, Research advisor

09/13 to 06/14

**Ho CY**, Cardinal JS, Kamer AP, Lin C, Kralik SF. Contrast Leakage Patterns from Dynamic Susceptibility Contrast Perfusion MRI in the Grading of Primary Pediatric Brain Tumors. *AJNR Am J Neuroradiol*. 2016 Mar;37(3):544-51. doi: 10.3174/ajnr.A4559. PubMed PMID: 26564438

**Ho CY**, Cardinal JS, Kamer AP, Kralik SF. Relative cerebral blood volume from dynamic susceptibility contrast perfusion in the grading of pediatric primary brain tumors. *Neuroradiology*. 2015 Mar;57(3):299-306. doi: 10.1007/s00234-014-1478-0. Epub 2014 Dec 13. PubMed PMID: 25504266

J Cardinal, S Kralik, A Kamer, **C Ho**. Perfusion MR Imaging for Grading Pediatric Brain Tumors.

American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada

Campbell Klatter Radiology Lecture Series, April 2014, Indianapolis, IN

J Cardinal, A Kamer, **C Ho**. Institutional Choroid Plexus Tumor Apparent Diffusion Coefficient Histogram Analysis and Comparison of Tumor Grade Values.

American Society of Neuroradiology Annual Meeting May 2013, San Diego, CA

Campbell Klatter Radiology Lecture Series, April 2012, Indianapolis, IN

Iftikhar Ahmad, MD, Advisor

09/10 to 06/13

Ahmad, I; Kralik, S; **Ho, C**; Douglas-Akinwande, A. Recurrent Spontaneous Intracranial Hypotension with rapid CSF leak requiring Digital Subtraction Myelography. American Society of Spine Radiology Annual Symposium, February 2013, Scottsdale, Arizona.

Ahmad, Iftikhar; **Ho, Chang**; Mosier, Kris. Patterns of Local, Malignant Disease Spread in the Floor of Mouth and Oral Tongue.

American Society of Neuroradiology Annual Meeting. May 2012, New York, NY.

Campbell Klatter Radiology Lecture Series, April 2012, Indianapolis, IN

Ahmad, Iftikhar; **Ho, Chang**; Mosier, Kristine. Tumors of the Skullbase Foramina: A Pictorial Review.

American Society of Neuroradiology annual meeting. June 2011, Seattle, WA

Campbell Klatter Radiology Lecture Series, April 2011, Indianapolis, IN

Ahmad, S. Kralik, **C.Y. Ho**, T. Ammar, A.C. Douglas. Cortical Laminar Necrosis and CT Negative Hemorrhage in Posterior Reversible Encephalopathy Syndrome: A case report . *Neuroradiology Journal* 25(6): 671-675, 2012

Ammar Taha, MD, Research advisor

09/11 to 09/12

Taha, Ammar; **Ho, Chang**; Seltman, Ted; Kralik, Stephen Grading of Supratentorial Tumors in the First Year of Life with ADC Ratios. *AJNR Am J Neuroradiol.* 2014 Apr;35(4):815-23. doi: 10.3174/ajnr.A3757.

Radiological Society of North America, November. 2012, Chicago, IL

Campbell Klatter Radiology Lecture Series, April 2012, Indianapolis, IN

Sajjad Hussain, MD, Research advisor

09/09 to 06/10

**Chang Y. Ho**, Sajjad Hussain, Tariq Alam. Accuracy of CT cerebral perfusion in predicting infarct in the emergency department: lesion characterization on CT perfusion based on commercially available software. *Emergency Radiology* 2013 Jan. DOI 10.1007/s10140-012-1102-8

American Roentgen Ray Society Annual Meeting April, 2010, San Diego, CA

Campbell Klatter Radiology Lecture Series, April 2010, Indianapolis, IN

Udaykamal Barad, MD, Research advisor

09/10 to 06/14

U Barad, A Taha, A Douglas, **C Ho**. Posterior Mediastinal Lipoblastoma with Intraspinal Epidural Extension: An Atypical Presentation of a Rare Entity American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada

Barad, Udaykamal; **Ho, Chang**. Predicting Clinical Outcomes with Magnetic Resonance Spectroscopy in Neonates with Hypoxic Ischemic Encephalopathy.

American Roentgen Ray Society Annual Meeting. May 2012, Vancouver, BC, Canada

Campbell Klatter Radiology Lecture Series, April 2011, Indianapolis, IN – Winner of Best Research Presentation

U Barad, M Crosby, **C Ho**. How Dark is too Dark? : Age-related Quantitative Analysis of Normal T2 Hypointensity of Central Gray Matter Structures on 3T.

American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada

Campbell Klatter Radiology Lecture Series, April 2012, Indianapolis, IN

Eugene Kim, MD, Research advisor

09/10 to 06/11

**Ho, Chang**; Kim Eugene; Oberle, Robert; Wu, Isaac. Comparison of Image Quality in Pediatric Head CT Reconstructed using Blended Iterative Reconstruction versus Filtered Back Projection.

American Roentgen Ray Society Annual Meeting. May 2012, Vancouver, BC, Canada

Campbell Klatter Radiology Lecture Series, April 2011, Indianapolis, IN

Stanley Chang, MD, Advisor

09/11 to 06/12

**Chang Ho**, Stanley Chang, Daniel Fulkerson, Jodi Smith. Children Presenting with Calcified Disc Herniation. A Self-Limiting Process. Radiology Case. 2012 Oct; 6(10):11-19

Ranjini Nirmala, MD, Research advisor

09/10 to 06/11

Nirmala, Ranjini; **Ho, Chang**. Perfusion Imaging of Pediatric Posterior Fossa Tumors.

American Society Neuroradiology annual meeting. June 2011, Seattle, WA

Campbell Klatter Radiology Lecture Series, April 2011, Indianapolis, IN

## Faculty

Atul Agarwal, MD, Department of Radiology, Peer Mentor  
Assistant Professor of Clinical Radiology

07/20 to current

Qiuting Wen, PhD, Department of Radiology, Research Mentor

07/20 to current

Assistant Professor of Radiology and Imaging Sciences

Mesha Martinez, MD, Department of Radiology, Peer Mentor  
current 09/18 to  
Assistant Professor of Clinical Radiology

Nucharin Supakul, MD, Department of Radiology, Peer Mentor 07/16 to current  
Associate Professor of Clinical Radiology

## Grants

### Current

Fujifilm Corporation, Chang Ho (PI) 02/19 to current  
Ischemic Stroke Detection Validation – Artificial Intelligence  
\$91,953  
Role: PI (0%)

Fujifilm Corporation, Chang Ho (PI) 02/19 to current  
Intracranial Hemorrhage Detection Validation – Artificial Intelligence  
\$80,937  
Role: PI (0%)

### Completed

NINDS, 1U01NS092764 and U01 NS092553, Yvonne Wu and Sandra Juul (Co-PIs) 11/16 to 05/22  
High-Dose Erythropoietin for Asphyxia and Encephalopathy (HEAL) Phase III Clinical Trial  
\$10,100,000  
Role: Key Personnel (0% effort)

Indiana University Office of Research Imaging, Chang Ho (PI) 07/18 to 06/20  
Radiology Project Development Team Pilot Grant-  
Multiparametric quantitative imaging of pediatric brain tumors.  
\$15,710  
Role: PI (0%)

Indiana University Office of Research Imaging, Chang Ho (PI) 07/18 to 06/19  
Radiology Project Development Team Pilot Grant-  
Volumetry and CSF flow analysis in enlarged subarachnoid spaces in infancy.  
\$7,673  
Role: PI (0%)

Veterans Administration, Chang Ho and Annette Douglas- Akinwande (Co-PIs) 08/10 to 05/15  
Advanced Neuroradiology Educational Grant  
\$72,078 annually  
Role: Director (0%)

Department of Defense, NF100031, Chie-Schin Shih (PI) 04/11 to 03/14  
A Phase II Study of Sutent Sunitinib, an Oral Multitargeted Tyrosine Kinase Inhibitor  
in Subjects with NF-1 Plexiform Neurofibromas.

\$1,308,192

Role: Co-Investigator (4%)

Novartis Pharmaceutical, Chie-Schin Shih (PI)  
Phase II Trial of Nilotinib (Tasigna) in Neurofibromatosis (NF1) Patients  
with Plexiform Neurofibromas

11/10 to 12/13

\$502,500

Role: Co-Investigator (4%)

Novartis Pharmaceutical, Kent Robertson (PI)  
A Phase II Study of Gleevec (Imatinib Mesylate) in NF1 (Neurofibromatosis)  
Patients with Plexiform Neurofibromas

02/16 to 06/11

\$160,400

Role: Co-Investigator (4%)

Department of Defense, NF080099, Kent Robertson (PI)  
Pilot Study of Gleevec®/Imatinib Mesylate (STI-571, NSC 716051)  
in Neurofibromatosis (NF1) Patients with Plexiform Neurofibromas

04/09 to 03/12

\$750,000

Role: Co-Investigator (4%)

### Other Active Research Activities and Clinical and Quality Improvements Projects

Comparison of multiple MR perfusion techniques in the histologic grading of pediatric brain tumors	2016 to current
Prediction of pediatric brain tumor molecular subtypes with perfusion imaging	2016 to current
Spinal DTI for quantitative evaluation of tethered cord	2019 to current
CSF flow parameters in the assessment of enlarged subarachnoid spaces of infancy	2018 to current
T1 mapping for a quantitative atlas of normal white matter myelination	2018 to current

### Publications

#### Peer-reviewed publications

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### **Non-print/Online Materials**

- Atypical Teratoid Rhabdoid Tumor. StatDX: Amirsys 2013
- AV fistula, Pial. StatDX: Amirsys 2012
- Cerebral Infarction, Fat Emboli. StatDX: Amirsys 2012
- Cerebral Infarction, PCA. StatDX: Amirsys 2012
- Cerebral Infarction, Superior Cerebellar Artery. StatDX: Amirsys 2012
- Germinal Matrix Hemorrhage. StatDX: Amirsys 2012
- Hypoglycemia, Child. StatDX: Amirsys 2012
- Molar Tooth Malformations (Joubert). StatDX: Amirsys 2012

Pilocytic Astrocytoma. StatDX: Amirsys 2012

Desmoplastic Infantile Astrocytoma and Ganglioglioma. StatDX: Amirsys 2009

Neurodegeneration with Brain Iron Accumulation (NBIA), Overview. StatDX: Amirsys 2009

Dyke-Davidoff-Masson. StatDX: Amirsys 2009

Atypical Teratoid Rhabdoid Tumor. StatDX: Amirsys 2011

Enlarged Subarachnoid Spaces. StatDX: Amirsys 2011

Pilocytic Astrocytoma. StatDX: Amirsys 2011

Brainstem Tumors, Pediatric. StatDX: Amirsys 2011

Choroid Plexus Papilloma, Typical. StatDX: Amirsys 2011

Choroid Plexus Papilloma, Atypical. StatDX: Amirsys 2011

Choroid Plexus Carcinoma. StatDX: Amirsys 2011

Desmoplastic Infantile Astrocytoma and Ganglioglioma. StatDX: Amirsys 2011

Neurodegeneration with Brain Iron Accumulation (NBIA), Overview. StatDX: Amirsys 2011

Neuroblastoma, Metastatic. StatDX: Amirsys 2011

Dyke-Davidoff-Masson. StatDX: Amirsys 2011

Choroid Fissure Cyst. StatDX: Amirsys 2011

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Hippocampal Sulcus Remnant Cysts. StatDX: Amirsys 2011

### **Editorial Responsibilities**

American Journal of Neuroradiology, Guest Editor News Digest "In Search of Radiographic Quantitative Data for Pediatric Brain Tumors"	06/18
ASEAN Journal of Radiology, Associate Editor	06/18 to current
American Journal of Neuroradiology, Reviewer	06/12 to current
Neuroradiology, Reviewer	06/13 to current
Journal of Radiology Case Reports, Reviewer	06/12 to current
American Journal of Radiology, Reviewer	06/08 to current

### **Invited Presentations**

#### **International**

Redefining Diagnosis for Pediatric Posterior Fossa Tumors- Radiogenomics 21 <sup>st</sup> Asian Oceanian Congress of Radiology (AOOCR), Bangkok, Thailand	02/09/23
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Updated Supratentorial and Infratentorial Pediatric Brain Tumors – Radiogenomics. iAOC Course Pediatric Neuro Workshop: Unwinding the Complexity, Bangkok, Thailand	02/08/23
Delayed Effects of Radiation to the CNS – MRI Optimization for Detection, 8th International Pediatric Radiology Congress, Rome, Italy	10/14/21
Radiogenomics of Pediatric Brain Tumors. Professional Development in Advanced Imaging, Imaging Academic Outreach Center, Bangkok, Thailand (virtual)	10/25/20
Practical Session VI: Wrap Up. Pediatric Neuro imaging in Daily Practice II, Imaging Academic Outreach Center, Bangkok, Thailand	08/04/19
Challenging Cases. Pediatric Neuro Imaging in Daily Practice. Imaging Academic Outreach Center, Bangkok, Thailand	10/07/17
Advanced MRI Imaging of Intracranial Tumors Functional and Molecular Imaging Conference, Fuzhou, China	03/28/14
MRI Spectroscopy: Clinical Applications Functional and Molecular Imaging Conference, Fuzhou, China	03/28/14
Diffusion Tractography of the Optic Pathway in Neurofibromatosis Functional and Molecular Imaging Conference, Fuzhou, China	03/28/14
MRI Perfusion Imaging: Techniques and Clinical Applications Radiology Update Conference, King Khalid University Hospital, Riyadh, Saudi Arabia	04/18/11
CT Perfusion Imaging: Techniques and Clinical Applications Radiology Update Conference, King Khalid University Hospital, Riyadh, Saudi Arabia	04/18/11
Adult Brain Tumor Imaging: Advanced Imaging Techniques Radiology Update Conference, King Khalid University Hospital, Riyadh, Saudi Arabia	04/18/11
<b>National</b>	
Updates in Pediatric Brain Tumors Learning with Indiana University: Didactic Lecture Series in Pediatric Neuroradiology	01/31/23
Utilization of MR Perfusion Techniques in Pediatric Brain Tumors 4 <sup>th</sup> Annual Meeting of the American Society of Pediatric Neuroradiology, Miami Beach, FL	01/07/22
Optimal Epilepsy MR Imaging and Protocols American Society of Neuroradiology Annual Meeting, June 2020.Virtual	06/01/20
Train to Nowhere: The Wide Spectrum of Tubulinopathies 2nd Annual Meeting of the American Society of Pediatric Neuroradiology, Miami Beach, FL	01/10/20
Skinning the Cat: An Overview on Multiple MRI Perfusion Techniques in Pediatric Tumors 1st Annual Meeting of the American Society of Pediatric Neuroradiology, New Orleans, LA	01/18/19
Efforts to Reduce the Need for Anesthesia in Magnetic Resonance Imaging Radiology Directors Forum of the Children’s Hospital Association, Indianapolis, IN	10/11/17

**Regional**

The Radiogenomics of Pediatric Brain Tumors Department of Diagnostic Medicine Grand Rounds, Austin, TX	9/12/22
Train to Nowhere: MR Characteristics of Neuronal Migrational Anomalies Pediatric Epilepsy Surgery Symposium, Indianapolis, IN	03/07/20
Skinning the Cat: An Overview on Multiple MRI Perfusion Techniques in Pediatric Tumors 6 <sup>th</sup> Annual Indiana Neuroimaging Symposium	10/28/19
Skinning the Cat: An Overview on Multiple MRI Perfusion Techniques in Pediatric Tumors University of Cincinnati Department of Radiology Visiting Professor Lecture	05/07/19
Train to Nowhere: MR Characteristics of Neuronal Migrational Anomalies Indiana Chapter for Neurodiagnostic Technologists (ISETT) Spring Lite Meeting.	04/13/19
When the Nose Doesn't Know: Anterior Skull Base Malformations 10 <sup>th</sup> Annual Midwest Head and Neck Meeting	03/23/19
Train to Nowhere: MR Characteristics of Neuronal Migrational Anomalies Pediatric Epilepsy Surgery Symposium, Indianapolis, IN	02/09/19
Spine Imaging in Non-accidental Trauma DocsInCASE Child Protection Conference, Indianapolis, IN	12/04/18
Strategies to Reduce the Need for Anesthesia in Magnetic Resonance Imaging Continuing Education Seminar at Methodist hospital for Radiologic Technologists, Indianapolis, IN	11/10/18
MRI and CT perfusion techniques Indiana University Neuroradiology Edutainment Series	09/10/18
Craniofacial Syndromes 8th Annual Midwest Head and Neck Imaging Meeting, Indianapolis, IN	03/11/17
Is It Abuse?: The Physician's Role in Diagnosing Pediatric Trauma Healthcare Ethics Seminar, Poynter Center for the Study of Ethics and American Institutions, Bloomington, IN	03/08/16
Imaging of Pediatric Neurotrauma Indiana University Health Bloomington Grand Rounds. Bloomington, IN	07/10/15
MRI Spectroscopy: Clinical Applications Continuing Education Seminar at Methodist Hospital for Radiologic Technologists, Indianapolis, IN	03/23/13
Pediatric Supratentorial Tumors IU Health Neuroradiology Symposium: Imaging Fundamentals and Leading-Edge Approaches, Indianapolis, IN	01/25/13
Advanced Imaging Applications for Pediatric Brain Tumor Diagnosis. IU Health Neuroradiology Symposium: Imaging Fundamentals and Leading-Edge Approaches, Indianapolis, IN	01/25/13

Neuroimaging of Newborn Encephalopathy Riley Neonatology Conference Series, Indianapolis, IN	08/14/12
MRI Spectroscopy: Overview and Clinical Applications Indiana University Neurology Grand Rounds, Indianapolis, IN	09/26/11
The Role of Advanced CNS Tumor Imaging in Pediatric Patients Continuing Education Seminar at Methodist hospital for Radiologic Technologists, Indianapolis, IN	03/26/11

## Posters, Abstract, Platform Presentations

### Peer Reviewed Abstracts

1. Gray B, Parker JG, Diller E, Wen Q, Wu YC, Anthony G, Territo P, **Ho CY**. Comparison of Diffusion and Perfusion Techniques in Differentiating High versus Low Grade Pediatric Brain Tumors. American Society of Neuroradiology Annual Meeting, June 2020.Virtual.
2. Kindler J, **Ho CY**, Kralik S, Robertson K, Territo P. Image segmentation of plexiform neurofibromas from a deep neural network using multiple b-value diffusion data. American Society of Neuroradiology Annual Meeting, June 2020.Virtual.
3. Kushdilian M, Acchiardo J, **Ho CY**, Radhakrishnan R. Morning Glory Disc Anomaly: More than Meets the Eye. American Society for Pediatric Neuroradiology 2nd Annual Meeting January 10-12, 2020, Miami Beach, FL. **\*Cum Laude Award**
4. Rajagopalan P, Radhakrishnan R, Walsh L, Wu IC, **Ho CY**. Losin' the Tubulin: Imaging Tubulinopathies. American Society for Pediatric Neuroradiology 1st Annual Meeting January 18-20 2019, New Orleans, LA.
5. Kralik SF, Cardinal J, Dodson SC, **Ho CY**. Title: Differentiation of High-Grade and Low-Grade Pediatric Brain Tumors Using Mono-exponential, Biexponential, and Stretched Exponential Diffusion-weighted Imaging. Radiological Society of North America Annual Meeting November 25-30 2018, Chicago, Illinois
6. Kralik SF, Eley KA, Supakul N, Wu IC, Radhakrishnan R, **Ho CY**, Delso G. Comparison of CT and "Black Bone" MRI for Detection of Skull Fractures in Children with Suspected Abusive Head Trauma. Radiological Society of North America Annual Meeting November 25-30 2018, Chicago, Illinois
7. Parker JG, Diller E, **Ho CY**, Radhakrishnan R, Brown BP. Fast Temperature Mapping of the Fetal Brain During Routine 3T Fetal MR Imaging. Radiological Society of North America Annual Meeting November 25-30 2018, Chicago, Illinois
8. Traylor KS, Dodson S, Kralik SF, **Ho CY**, Radhakrishnan R. Pediatric inner ear anomalies in genetic syndromes and multisystem associations. American Society of Head and Neck Radiology Annual Meeting. September 26-30, 2018 Savannah, Georgia

9. Supakul N, **Ho CY**, Wu I, Radhakrishnan R, Kralik SF. Magnetic Resonance Imaging of Pediatric CNS Infections. Tentorium. American Society of Neuroradiology Annual Meeting June 2-7 2018, Vancouver, BC, Canada
10. **Ho CY**, Seit V, Supakul N, Groswald M, Cardinal J, Kralik SF. Perfusion and Diffusion Imaging in Distinguishing Pilocytic Versus Piloxyoid Astrocytomas Above and Below the Tentorium. American Society of Neuroradiology Annual Meeting June 2-7 2018, Vancouver, BC, Canada
11. **Ho CY**, Supakul N, Wu IC, Kralik SF. Craniofacial syndromes: Matching characteristic phenotypes with genotypes. XXI Symposium Neuroradiologicum, March 18-23, 2018, Taipei, Taiwan
12. **Ho CY**, Deardorff R, Kralik SF, West J, Wu YC, Shih CS. Comparison of Diffusion Tensor Acquisition Techniques for the Optic Nerve in Patients with Neurofibromatosis Type 1. XXI Symposium Neuroradiologicum, March 18-23, 2018, Taipei, Taiwan
13. Scott Persohn, **Chang Ho**, Kent Robertson, Gary D. Hutchins, Paul R. Territo. Physiological Image Segmentation: Development of a Neural Network Model of Intravoxel Incoherent Motion in the Assessment of Pediatric Neurofibromatosis Type 1. Society of Nuclear Medicine and Molecular Imaging Annual Meeting. June 10-14, 2017, Denver, Colorado
14. Beachy N and **Ho CY**. Radiographic Findings of Tuberous Sclerosis and Implications for Surgical Treatment of Epilepsy. American Society of Neuroradiology Annual Meeting April 2017, Long Beach, CA
15. Shope RA, Harris ML, Kralik SF, **Ho CY**, Mietzsch U. Sleep-wake-cycle as a tool to predict neurodevelopmental outcome in neonates treated with ECMO. American Academy of Pediatrics National Conference and Exhibition. October 22-25, 2016, San Francisco, CA
16. Buchsbaum JC, Haskins CP, Finke W, Kralik SF, **Ho CY**, Shih CS. Beam Edges and Safety: Correlation with Imaging Radiation Necrosis in Pediatric Brain Tumor Patients Treated with Proton Radiotherapy. American Society for Radiation Oncology 57th Annual Meeting. November 2015 San Antonio, TX
17. D Sokol, D Lahirir, B Maloney, **C Ho**. Enlarged Brain Volume and Elevated Secreted Amyloid Precursor Protein-Alpha (sAPP) Levels in Autism are Consistent with sAPP Mediated Anabolic Pathway and Macrocephaly. National Academy of Neuropsychology 35th Annual Conference. November 4-7, 2015 Austin, TX.
18. Buchsbaum JC, Haskins CP, Finke W, Kralik SF, **Ho CY**, Shih CS. Beam Edges and Safety: Correlation with Imaging Radiation Necrosis in Pediatric Brain Tumor Patients Treated with Proton Radiotherapy. Paediatric Radiation Oncology Society (PROS) Congress June 2015, Ljubljana, Slovenia



19. Monaco G, **Ho C**, Ackerman L. Role of Fast-T2 MRI in Reducing Radiation Exposure in Pediatric Patients with Subdural Hematoma due to Non-Accidental Trauma. American Association of Neurological Surgeons 83rd Annual Scientific Meeting. May 2015, Washington D.C
20. N Supakul and **C Ho**. "It's not a Rorschach test" Imaging pattern recognition of pediatric metabolic disorders of the brain. American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL
21. N Supakul and **C Ho**. "Polkadots and Moonbeams" Neurocutaneous Syndromes Made Easy. American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL
22. S Conrad, D Miller, **C Ho**, M Harris. Is Ultrafast Spin Brain MRI More Sensitive Than Head CT for Evaluation of Intracranial Abnormalities? American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL
23. J Alexander and **C Ho**. Diencephalic-Mesencephalic Junction Dysplasia. American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL
24. **Ho CY**, Yasrebi M, Kralik SF, Supakul N, Hicks R, Harris M, Hibbard R. Preliminary findings comparing ultrafast MRI brain and conventional MRI brain techniques in the non-accidental trauma pediatric population. American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL
25. **Ho CY**, Kralik SF, Chou, H, Harris M, Mietzsch U. Inter-observer Agreement of Scoring Systems for Hypoxic Ischemic Encephalopathy. American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL
26. Dodson S, Dalesandro M, **Ho CY**, Kralik SF. Evaluation of Cervicomedullary Junction Velocity and Syringohydromyelia in Patients with Chiari One Malformation. American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL.
27. Finke W, Wu IC, **Ho CY**, Kralik SF. Second Opinion Interpretations of Head CTs in Patients with Suspected Nonaccidental Trauma. American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL
28. **Ho CY**, Smith J, Kralik SF. Correlation of Traumatic Brain Injury Outcomes to Volumes of Parenchymal Injury and Extra-axial Hematomas in the Pediatric Population. American Society of Neuroradiology Annual Meeting April 2015, Chicago, IL
29. Fleming C, Kralik SF, **Ho CY**. White Matter matters: Imaging Spectrum and Approach to Pediatric White Matter Diseases. Society of Pediatric Radiology Annual Meeting April 2015, Seattle, WA
30. Fleming C, **Ho CY**, Kralik SF. Back to the Back: Imaging Pearls of Common Pediatric Intramedullary Spinal Lesions. Society of Pediatric Radiology Annual Meeting April 2015, Seattle, WA

31. Mehta P, Kralik S, Fleming C, **Ho C**. Imaging Spectrum of Acute Disseminated Encephalomyelitis (ADEM): A Pictorial Review. American Roentgen Ray Society Annual Meeting April 2015, Toronto, Canada
32. Finke W, Kralik S, **Ho C**. Fetal MRI Evaluation of Chiari 2 Malformation. American Roentgen Ray Society Annual Meeting April 2015, Toronto, Canada
33. **Ho C**, Broadbent M, Cardinal J, Kamer A, Kralik S. Dynamic Susceptibility Contrast Perfusion in Distinguishing the WNT Molecular Subgroup of Medulloblastomas. American Roentgen Ray Society Annual Meeting April 2015, Toronto, Canada
34. W Finke, **C Ho**, C Shih, S Kralik. Cerebral Necrosis in Pediatric Brain Tumor Patients Treated with Proton Radiotherapy. American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada
35. N Supakul, **C Ho**. Ectopic External Auditory Canal and Ossicular Formation in Goldenhar Syndrome. American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada
36. **C Ho**, S Kralik, J Smith, J Boaz, L Ackerman, D Fulkerson, Y Wang. Evaluation of a Novel Pulsed Arterial Spin Labeling Protocol in Pediatric Brain Tumors: A Feasibility Study in Comparison with Dynamic Susceptibility Contrast Perfusion. American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada
37. N Supakul, S Kralik, **C Ho**. Fetal MR Imaging Technique: What Are We Looking for? American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada
38. **C Ho**, J West, C Lin, S Kralik, Y Wang, D Porter, A Saykin, C Shih. High Resolution Diffusion Tensor Imaging of the Optic Pathway in NF1 Patients with Readout-Segmented, Multi-Shot Echo Planar Imaging at 3T. American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada
39. U Barad, M Crosby, **C Ho**. How Dark Is too Dark?: Age-Related Quantitative Analysis of Normal T2 Hypointensity of Central Gray Matter Structures on 3T. American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada
40. U Barad, A Taha, A Douglas, **C Ho**. Posterior Mediastinal Lipoblastoma with Intraspinous Epidural Extension: An Atypical Presentation of a Rare Entity American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada
41. J Cardinal, S Kralik, A Kamer, **C Ho**. Perfusion MR Imaging for Grading Pediatric Brain Tumors. American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada
42. N Supakul, S Kralik, **C Ho**. Ultrafast MR Imaging Brain in Comparison with Head CT for the Diagnosis of Nonaccidental Trauma. American Society of Neuroradiology Annual Meeting May 2014, Montreal, Canada

43. Kralik, SF; Kamer, AP; O'Neill, DP, Rodriguez, E; **Ho CY**. Diagnosis of Spinal Drop Metastases on Initial Presentation of Pediatric Brain Tumor Patients Using 3D Volumetric Postcontrast Axial Imaging. American Society of Neuroradiology Annual Meeting May 2013, San Diego, CA
44. Kamer, AP; Cardinal J; **Ho CY**. Institutional Choroid Plexus Tumor Apparent Diffusion Coefficient Histogram Analysis and Comparison of Tumor Grade Values. American Society of Neuroradiology Annual Meeting May 2013, San Diego, CA
45. Barad, U; **Ho, CY**; Kralik, SF. MR Diffusion and Perfusion Characteristics of Desmoplastic Infantile Ganglioglioma. American Society of Neuroradiology Annual Meeting May 2013, San Diego, CA
46. Supakul, N; Kralik, SF; **Ho CY**. Congenital Brain and Spine Anomalies: Detection with Fetal MR Imaging and Postnatal Correlation. American Society of Neuroradiology Annual Meeting May 2013, San Diego, CA
47. Ahmad, I; Kralik, S; **Ho, C**; Douglas-Akinwande, A. Recurrent Spontaneous Intracranial Hypotension with rapid CSF leak requiring Digital Subtraction Myelography. American Society of Spine Radiology Annual Symposium, February 2013, Scottsdale, Arizona.
48. Taha, A; Kralik, S; Seltman, T; **Ho, C**. Grading of Supratentorial Tumors in the First Year of Life with ADC Ratios. Radiological Society of North America, November. 2012, Chicago, IL
49. J Bonnin, CS Shih, R Burgett, **CY Ho**. Orbitocranial Intravascular Papillary Endothelial Hyperplasia and Microphthalmia: A Case Report. 88th Annual Meeting of the American Association of Neuropathologists, Chicago, IL.
50. Shih, CS; Ekoma, S; **Ho, C**; Pradhan K. Multifocal Low Grade Glioma in Children: The Riley Hospital for Children Experience. 15th International Symposium on Pediatric Neuro-Oncology, June 2012, Toronto, Canada
51. Shih, CS; West, J; **Ho, C**; Porter, D; Wang, Y; Kralik, S; Saykin, A; McDonald, B; Arfanakis, K. Diffusion Tensor Imaging of Optic Nerve Gliomas in Children with Neurofibromatosis Type 1. 15th International Symposium on Pediatric Neuro-Oncology, June 2012, Toronto, Canada
52. **Ho, Chang**; Kim Eugene; Oberle, Robert; Wu, Isaac. Comparison of Image Quality in Pediatric Head CT Reconstructed using Blended Iterative Reconstruction versus Filtered Back Projection. American Roentgen Ray Society Annual Meeting. May 2012, Vancouver, BC, Canada
53. Barad, Udaykamal; **Ho, Chang**. Predicting Clinical Outcomes with Magnetic Resonance Spectroscopy in Neonates with Hypoxic Ischemic Encephalopathy. American Roentgen Ray Society Annual Meeting. May 2012, Vancouver, BC, Canada
54. Ahmad, Iftikhar; **Ho, Chang**; Mosier, Kris. Patterns of Local, Malignant Disease Spread in the Floor of Mouth and Oral Tongue. American Society of Neuroradiology Annual Meeting. May 2012, New York, NY.

55. Nirmala, Ranjini; **Ho, Chang**. Perfusion Imaging of Pediatric Posterior Fossa Tumors. American Society Neuroradiology annual meeting. June 2011, Seattle, WA
56. Ahmad, Iftikhar; **Ho, Chang**; Mosier, Kristine. Tumors of the Skullbase Foramina: A Pictorial Review. American Society of Neuroradiology annual meeting. June 2011, Seattle, WA
57. K. A. Robertson, D. C. Bowers, F. Yang, T. Vik, **C. Ho** et al. Phase II pilot study of imatinib mesylate in neurofibromatosis (NF1) patients with plexiform neurofibromas. American Society of Clinical Oncology Annual Meeting. June 3-7, 2011, Chicago, IL.
58. **Chang Y. Ho**, Sajjad Hussain, Tariq Alam. Accuracy of CT Cerebral Perfusion in Predicting Infarct: Correlation of the Size of Ischemic lesions on CT Perfusion Compared to Diffusion Weighted Imaging. American Roentgen Ray Society Annual Meeting April, 2010, San Diego, CA
59. **C Y Ho, MD**; S Steiner, MD, ; D P O'Neill, MD; J N Useche, MD; K S Preston, MD; A Pitzele, MD, et al. Pediatric Aspiration: Association with Abnormal Brain MRI Findings and White Matter Volume Loss. Radiological Society of North America, Dec. 2009, Chicago, IL
60. Douglas-Akinwande AC; Brown K M, Jennings SG, **Ho C Y**. Evaluation of a Metal Artifact Correction Technique on Computed Tomographic Imaging in Neuroradiology: Preliminary results. Presented at the 109th annual meeting of the American Roentgen Ray Society. Boston, MA. April 26–May 1, 2009. CME category 1 credit. **Award of Merit**
61. Douglas-Akinwande AC; Brown K M, Jennings SG, **Ho C Y**, Hamada K. Evaluation of a new image-based Metal Artifact Correction Technique on Computed Tomographic Imaging in Neuroradiology. Presented at the 23rd International Congress and Exhibition of Computer Assisted Radiology and Surgery, Berlin, Germany. June 23 - 27, 2009
62. **Ho, Chang Yueh MD**; Douglas-Akinwande, Annette C. MD; Rankin, James Louis BS, RT. Multichannel Computed Tomography Angiography and its Role in the Evaluation of Rotational Vertebrobasilar Insufficiency. American Society of Neuroradiology Annual Meeting. May 2007, Chicago, IL.

#### Non-Peer Reviewed Abstracts

1. Gray B, Parker JG, Diller E, Wen Q, Wu YC, Anthony G, Territo P, **Ho CY**. Comparison of Diffusion and Perfusion Techniques in Differentiating High versus Low Grade Pediatric Brain Tumors. Campbell Klatte Radiology Lecture Series, April 2020, Indianapolis, IN
2. Kindler J, **Ho CY**, Kralik S, Robertson K, Territo P. Image segmentation of plexiform neurofibromas from a deep neural network using multiple b-value diffusion data. Campbell Klatte Radiology Lecture Series, April 2020, Indianapolis, IN
3. Mahoui I, Persohn S, **Ho CY**, Territo P Quantifying Myelin Maturation in Healthy Babies. Project SEED Abstract session, July 18th, 2019, Indianapolis, IN

4. Fischer W and **Ho C**. Comparison of Image Quality in Pediatric Head Computed Tomography Reconstructed Using a Novel Contrast Enhancement Algorithm. Campbell Klatte Radiology Lecture Series, April 2017, Indianapolis, IN
5. Baskin M, Karmazyn B, Marine M, **Ho C**. Gray Matter Matters: Ultrasonography of Migrational and Organizational Brain Abnormalities. Campbell Klatte Radiology Lecture Series, May 2015, Indianapolis, IN
6. J Alexander and **C Ho**. Diencephalic-Mesencephalic Junction Dysplasia. Campbell Klatte Radiology Lecture Series, May 2015, Indianapolis, IN
7. **Ho CY**, Yasrebi M, Kralik SF, Supakul N, Hicks R, Harris M, Hibbard R. Preliminary findings comparing ultrafast MRI brain and conventional MRI brain techniques in the non-accidental trauma pediatric population. Campbell Klatte Radiology Lecture Series, May 2015, Indianapolis, IN
8. **Ho CY**, Smith J, Kralik SF. Correlation of Traumatic Brain Injury Outcomes to Volumes of Parenchymal Injury and Extra-axial Hematomas in the Pediatric Population. Campbell Klatte Radiology Lecture Series, May 2015, Indianapolis, IN
9. N Supakul, S Kralik, **C Ho**. Ultrafast MR Imaging Brain in Comparison with Head CT for the Diagnosis of Nonaccidental Trauma. Campbell Klatte Radiology Lecture Series, April 2014, Indianapolis, IN
10. J Cardinal, S Kralik, A Kamer, **C Ho**. Perfusion MR Imaging for Grading Pediatric Brain Tumors. Campbell Klatte Radiology Lecture Series, April 2014, Indianapolis, IN
11. Supakul, N; Kralik, SF; **Ho CY**. Congenital Brain and Spine Anomalies: Detection with Fetal MR Imaging and Postnatal Correlation. Campbell Klatte Radiology Lecture Series, April 2012, Indianapolis, IN
12. Taha, Ammar; **Ho, Chang**; Seltman, Ted; Kralik, Stephen. Grading of Supratentorial Tumors in the First Year of Life with ADC Ratios. Campbell Klatte Radiology Lecture Series, April 2012, Indianapolis, IN
13. Cardinal, Jeremy; Kamer, Aaron, **Ho, Chang**. Institutional Choroid Plexus Tumor Apparent Diffusion Coefficient Histogram Analysis and Comparison of Tumor Grade Values. Campbell Klatte Radiology Lecture Series, April 2012, Indianapolis, IN
14. **Ho, Chang**, Barad, Udaykamal; Crosby, Matthew;. How Dark is too Dark? : Age-related Quantitative Analysis of Normal T2 Hypointensity of Central Gray Matter Structures on 3T. Campbell Klatte Radiology Lecture Series, April 2012, Indianapolis, IN
15. Ahmad, Iftikhar; **Ho, Chang**; Mosier, Kris. Patterns of Local, Malignant Disease Spread in the Floor of Mouth and Oral Tongue. Campbell Klatte Radiology Lecture Series, April 2012, Indianapolis, IN

16. Ahmad, Iftikhar; **Ho, Chang**; Mosier, Kristine. Tumors of the Skullbase Foramina: A Pictorial Review. Campbell Klatte Radiology Lecture Series, April 2011, Indianapolis, IN
17. Barad, Udaykamal; **Ho, Chang**; The Use of MR Spectroscopy in Predicting Clinical Outcome in Neonates with Hypoxic Ischemic Encephalopathy. Campbell Klatte Radiology Lecture Series, April 2011, Indianapolis, IN
18. Nirmla, Ranjini; **Ho, Chang**. Perfusion Imaging of Pediatric Posterior Fossa Tumors. Campbell Klatte Radiology Lecture Series, April 2011, Indianapolis, IN
19. **Ho, Chang**; Kim Eugene; Oberle, Robert; Wu, Isaac. Comparison of Image Quality in Pediatric Head CT Reconstructed using Blended Iterative Reconstruction versus Filtered Back Projection. Campbell Klatte Radiology Lecture Series, April 2011, Indianapolis, IN
20. Moore, Louis; Verma, Nishant; **Ho, Chang**; Neuroradiology cases, Superior Semicircular Canal Dehiscence, American Roentgen Ray Society Annual Meeting. May 2010, Chicago, IL
21. Moore, Louis; Verma, Nishant; **Ho, Chang**; Neuroradiology cases, CNS Methotrexate toxicity, American Roentgen Ray Society Annual Meeting. May 2010, Chicago, IL
22. **Chang Y. Ho**, Sajjad Hussain, Tariq Alam. Accuracy of CT Cerebral Perfusion in Predicting Infarct: Correlation of the Size of Ischemic lesions on CT Perfusion Compared to Diffusion Weighted Imaging. Campbell Klatte Radiology Lecture Series, April 2010, Indianapolis, IN
23. Horst, Kelly; Ahmed, Aziz; **Ho, Chang**; Neuroradiology cases, Multiple Sclerosis. American Roentgen Ray Society Annual Meeting. April 2009, Boston, MA
24. Horst, Kelly; Ahmed, Aziz; **Ho, Chang**; Neuroradiology cases, Posterior Reversible Encephalopathy Syndrome. American Roentgen Ray Society Annual Meeting. April 2009, Boston, MA
25. Horst, Kelly; Ahmed, Aziz; **Ho, Chang**; Neuroradiology cases, Otospongiosis/ Otosclerosis. American Roentgen Ray Society Annual Meeting. April 2009, Boston, MA
26. Horst, Kelly; Ahmed, Aziz; **Ho, Chang**; Neuroradiology cases, Progressive Supranuclear Palsy. American Roentgen Ray Society Annual Meeting. April 2009, Boston, MA
27. **Chang Y. Ho**, Kristine Mosier. Review of fMRI techniques and applications. Campbell Klatte Radiology Lecture Series, April 2006, Indianapolis, IN

**Visiting Professorship**

Visiting Lecturer 05/07/19  
 Skinning the Cat: An Overview on Multiple MRI Perfusion Techniques in Pediatric Tumors  
 Department of Radiology, University of Cincinnati, Cincinnati, OH

**University Service**

Department of Diagnostic Medicine Leadership Council, member 11/22 to current  
 University of Texas at Austin Faculty Council, member 11/22 to current  
 MRI Quality Assurance, Chair, Dell Children's Medical Center 11/22 to current  
 MRI Medical Director, Seton Ascension Hospitals 8/23 to current  
 IUPUI Faculty Council, At-Large member 09/19 to current  
 Neuroscience Leadership Council, IU school of Medicine, member 02/18 to 09/19  
 Indiana Clinical and Translational Science Institute, Grant Reviewer 11/2017  
 Pediatric Neuroradiology Research Committee, Chair 09/17 to 06/22  
 IUSM Department of Radiology Leadership Council, member 11/16 to 06/22  
 Indiana University School of Medicine Neuroradiology Protocol Committee, member 09/08 to 06/22  
 Riley Children's Hospital Planning Committee for Simon Family Tower Transition, member 09/08 to 05/10  
 Indiana University School of Medicine Medical Student Radiology Interest Group, Advisor 07/08 to 06/22  
 MRI Quality Assurance Committee, Riley Children's Hospital, Co-Physician Leader 07/08 to 06/22

**Community Service**

Soma Midtown Church, Missions Committee, Chair 12/21 to 06/22  
 Village Life Church, Elder 08/11 to 05/16