

Radiology

Division Details

RESEARCH AND TRAINING DETAILS

Faculty	45
Joint Appointment Faculty	8
Research Fellows and Post Docs	1
Research Graduate Students	7
Total Annual Grant Award Dollars	\$624,545
Total Annual Industry Award Dollars	\$203,008
Total Publications	179

CLINICAL ACTIVITIES AND TRAINING

Clinical Fellows	12
Inpatient Encounters	54,677
Outpatient Encounters	161,262



Row 1: K Strauss, R Radhakrishnan, A Oestreich, A Aguado, K Emery, H Kim, K Helton-Skally, J Tkach, S Kraus, T Laor, U Nagaraj, S O'Hara, M Caré

Row 2: S Serai, Z Qi, R Fleck, J Woods, C Dumoulin, S Holland, A Trout, C Merrow, K Cecil, B Koch

Row 3: M DiFrancesco, G Lee, C Anton, L Leach, B Coley, N Johnson

Division Publications

1. Abruzzo TA, Geller JI, Kimbrough DA, Michaels S, Correa ZM, Cornell K, Augsburger JJ. **Adjunctive Techniques for Optimization of Ocular Hemodynamics in Children Undergoing Ophthalmic Artery Infusion Chemotherapy.** *J Neurointerv Surg.* 2015; 7:770-6.
2. Adams DM, Trenor CC, 3rd, Hammill AM, Vinks AA, Patel MN, Chaudry G, Wentzel MS, Mobberley-Schuman PS, Campbell LM, Brookbank C, Gupta A, Chute C, Eile J, McKenna J, Merrow AC, Fei L, Hornung L, Seid M, Dasgupta AR, Dickie BH, et al. **Efficacy and Safety of Sirolimus in the Treatment of Complicated Vascular Anomalies.** *Pediatrics.* 2016; 137:e20153257.
3. Aguado A, Brody A, Calvo G, , MA, Care M, Florin, T, Dillma A, Johnson N, Jones B, Fleck, R, Kline-Fath B. **Active Reviewers (from October 1, 2014 through September 30, 2015).** *Pediatric Radiol.* 2015; 45:1883-86.
4. Akbari SH, Limbrick DD, Jr., McKinstry RC, Altaye M, Ragan DK, Yuan W, Mangano FT, Holland SK, Shimony JS. **Periventricular Hyperintensity in Children with Hydrocephalus.** *Pediatr Radiol.* 2015; 45:1189-97.

5. Allendorfer J, Hernando K, Hossain S, Nenert R, Holland S, Szaflarski J. **Arcuate Fasciculus Asymmetry Has a Hand in Language Function but Not Handedness.** *Hum Brain Mapp.* 2016.
6. Ambroggio L, Sucharew H, Rattan MS, O'Hara SM, Babcock DS, Clohessy C, Steinhoff MC, Macaluso M, Shah SS, Coley BD. **Lung Ultrasonography: A Viable Alternative to Chest Radiography in Children with Suspected Pneumonia?** *J Pediatr.* 2016; 176:93-98 e7.
7. Andrade BB, Pavan Kumar N, Amaral EP, Riteau N, Mayer-Barber KD, Tosh KW, Maier N, Conceicao EL, Kubler A, Sridhar R, Banurekha VV, Jawahar MS, Barbosa T, Manganiello VC, Moss J, Fontana JR, Marciano BE, Sampaio EP, Olivier KN, Holland SM, et al. **Heme Oxygenase-1 Regulation of Matrix Metalloproteinase-1 Expression Underlies Distinct Disease Profiles in Tuberculosis.** *J Immunol.* 2015; 195:2763-73.
8. Babcock L, Yuan W, Leach J, Nash T, Wade S. **White Matter Alterations in Youth with Acute Mild Traumatic Brain Injury.** *J Pediatr Rehabil Med.* 2015; 8:285-96.
9. Back SJ, Merrow AC. **Case 4: An Adolescent Girl with Left Lower Quadrant Pain.** *Pediatr Radiol.* 2016; 46:1068-74.
10. Backeljauw B, Holland SK, Altaye M, Loepke AW. **Cognition and Brain Structure Following Early Childhood Surgery with Anesthesia.** *Pediatrics.* 2015; 136:e1-12.
11. Barkmeier D, Dillman J, Al-Hawary M, Heider A, Davenport M, Smith E, Adler J. **Mr Enterography-Histology Comparison in Resected Pediatric Small Bowel Crohn Disease Strictures: Can Imaging Predict Fibrosis?** *Pediatric Radiol.* 2016; 46:498-507.
12. Bertocci MA, Bebko G, Versace A, Fournier JC, Iyengar S, Olino T, Bonar L, Almeida JR, Perlman SB, Schirda C, Travis MJ, Gill MK, Diwadkar VA, Forbes EE, Sunshine JL, Holland SK, Kowatch RA, Birmaher B, Axelson D, Horwitz SM, et al. **Predicting Clinical Outcome from Reward Circuitry Function and White Matter Structure in Behaviorally and Emotionally Dysregulated Youth.** *Mol Psychiatry.* 2016; 21:1194-201.
13. Boutin RD, White LM, Laor T, Spitz DJ, Lopez-Ben RR, Stevens KJ, Bredella MA. **Mri Findings of Serous Atrophy of Bone Marrow and Associated Complications.** *Eur Radiol.* 2015; 25:2771-8.
14. Brady C, Vannest J, Dolan L, Kadis D, Lee G, Holland S, Khoury J, Shah A. **Obese Adolescents with Type 2 Diabetes Perform Worse Than Controls on Cognitive and Behavioral Assessments.** *Pediatr Diabetes.* 2016.
15. Burkes SA, Patel M, Adams DM, Hammill AM, Eaton KP, Randall Wickett R, Visscher MO. **Infantile Hemangioma Status by Dynamic Infrared Thermography: A Preliminary Study.** *Int J Dermatol.* 2016; 55:e522-32.
16. Calvo-Garcia M. **Imaging Evaluation of Fetal Megacystis: How Can Magnetic Resonance Imaging Help?** *Seminars Ultrasound CT MR.* 2015; 36:537-49.
17. Calvo-Garcia MA. **Guidelines for Scanning Twins and Triplets with Us and Mri.** *Pediatr Radiol.* 2016; 46:155-66.
18. Calvo-Garcia MA, Kline-Fath BM, Adams DM, Gupta A, Koch BL, Lim FY, Laor T. **Imaging Evaluation of Fetal Vascular Anomalies.** *Pediatr Radiol.* 2015; 45:1218-29.
19. Chavhan GB, Dillman JR. **Introduction: Pediatric Body Mri Course Supplement.** *Pediatr Radiol.* 2016; 46:739.
20. Chen Y, Lee G, Aandal G, Badve C, Wright K, Griswold M, Seiberlich N, Gulani V. **Rapid Volumetric T-1 Mapping of the Abdomen Using Three-Dimensional through-Time Spiral Grappa.** *Magn Reson Med.* 2016; 75:1457-65.
21. Coleman A, Kline-Fath B, Stanek J, Lim F-Y. **Pleuropulmonary Blastoma in a Neonate Diagnosed Prenatally as Congenital Pulmonary Airway Malformation.** *Fetal Diagn Ther.* 2016; 39:234-37.
22. Corcoran B, Linscott LL, Leach JL, Vadivelu S. **Application of Normative Occipital Condyle-C1 Interval Measurements to Detect Atlanto-Occipital Injury in Children.** *AJNR Am J Neuroradiol.* 2016; 37:958-62.

23. Cramer SL, Wei S, Merrow AC, Pressey JG. **Gorham-Stout Disease Successfully Treated with Sirolimus and Zoledronic Acid Therapy.** *J Pediatr Hematol Oncol.* 2016; 38:e129-32.
24. Daldrup-Link HE, Sammet C, Hernanz-Schulman M, Barsness KA, Cahill AM, Chung E, Doria AS, Darge K, Krishnamurthy R, Lungren MP, Moore S, Olivieri L, Panigrahy A, Towbin AJ, Trout A, Voss S. **White Paper on P4 Concepts for Pediatric Imaging.** *J Am Coll Radiol.* 2016; 13:590-97 e2.
25. Dandoy CE, Linscott LL, Davies SM, Leach JL, Myers KC, El-Bietar J, Chima RS, Pate A, Nelson A, Wallace G, Wong HR, Jodele S. **Clinical Utility of Computed Tomography and Magnetic Resonance Imaging for Diagnosis of Posterior Reversible Encephalopathy Syndrome after Stem Cell Transplantation in Children and Adolescents.** *Biol Blood Marrow Transplant.* 2015; 21:2028-32.
26. Daniels BR, Pratt R, Giaquinto R, Dumoulin C. **Optimizing Accuracy and Precision of Micro-Coil Localization in Active-Mr Tracking.** *Magn Reson Imaging.* 2016; 34:289-97.
27. Dasgupta N, Patel M, Racadio J, Johnson N, Lungren M. **Comparison of Complications between Pediatric Peripherally Inserted Central Catheter Placement Techniques.** *Pediatr Radiol.* 2016; 46:1-5.
28. Davenport M, Mervak B, Ellis J, Dillman J, Reed D, N, Cohan R. **Indirect Cost and Harm Attributable to Oral 13-Hour Inpatient Corticosteroid Prophylaxis before Contrast-enhanced Ct1.** *Radiology.* 2016; 279:492-501.
29. Davis J, Kreppel A, Brady R, Jones B, Stevenson C, Fouladi M, Hummel T. **Nocardia Farcinica Meningitis Masquerading as Central Nervous System Metastasis in a Child with Cerebellar Pilocytic Astrocytoma.** *J Pediatr Hematol Oncol.* 2015; 37:482-85.
30. Dehaye A, Silva CT, Darge K, Prabhu SP, Andronikou S, Laya BF, Coley BD, Boechat MI. **Saving the Starfish: World Federation of Pediatric Imaging (Wfpi) Development, Work to Date, and Membership Feedback on International Outreach.** *Pediatr Radiol.* 2016; 46:452-61.
31. Dickerson EC, Dillman JR, Smith EA, DiPietro MA, Lebowitz RL, Darge K. **Pediatric Mr Urography: Indications, Techniques, and Approach to Review.** *Radiographics.* 2015; 35:1208-30.
32. Dillman J, Elsayes K. **Imaging of Pancreas Transplant.** In: E Khaled, ed. *Cross-Sectional Imaging of the Abdomen and Pelvis: A Practical Algorithmic Approach.* New York: Springer; 2015:741-59.
33. Dillman J, Smith E, Davenport M, DiPietro M, Sanchez R, Kraft K, Brown R, Rubin J. **Can Shear-Wave Elastography Be Used to Discriminate Obstructive Hydronephrosis from Nonobstructive Hydronephrosis in Children?** *Radiology.* 2015; 277:259-67.
34. Dillman J, Swanson S, Johnson L, Moons D, Adler J, Stidham R, Higgins P. **Comparison of Noncontrast Mri Magnetization Transfer and T2-Weighted Signal Intensity Ratios for Detection of Bowel Wall Fibrosis in a Crohn's Disease Animal Model.** *J Magn Reson Imaging.* 2015; 42:801-10.
35. Dillman J, Trout A, Smith E. **Mr Enterography: How to Deliver Added Value.** *Pediatric Radiol.* 2016; 46:829-37.
36. Dillman JR, Gadepalli S, Sroufe NS, Davenport MS, Smith EA, Chong ST, Mazza MB, Strouse PJ. **Equivocal Pediatric Appendicitis: Unenhanced Mr Imaging Protocol for Nonsedated Children—a Clinical Effectiveness Study.** *Radiology.* 2016; 279:216-25.
37. Dillman JR, Heider A, Bilhartz JL, Smith EA, Keshavarzi N, Rubin JM, Lopez MJ. **Ultrasound Shear Wave Speed Measurements Correlate with Liver Fibrosis in Children.** *Pediatr Radiol.* 2015; 45:1480-8.
38. Dillman JR, Smith EA, Sanchez R, DiPietro MA, Dehkordy SF, Adler J, DeMatos-Maillard V, Khalatbari S, Davenport MS. **Prospective Cohort Study of Ultrasound-Ultrasound and Ultrasound-Mr Enterography Agreement in the Evaluation of Pediatric Small Bowel Crohn Disease.** *Pediatr Radiol.* 2016; 46:490-7.
39. Dillman JR, Trout AT, Smith EA. **Mr Urography in Children and Adolescents: Techniques and Clinical Applications.** *Abdom Radiol (NY).* 2016; 41:1007-19.

40. Ducharme S, Albaugh MD, Nguyen TV, Hudziak JJ, Mateos-Perez JM, Labbe A, Evans AC, Karama S, Brain Development Cooperative Group. **Trajectories of Cortical Surface Area and Cortical Volume Maturation in Normal Brain Development.** *Data Brief.* 2015; 5:929-38.
41. Eismann EA, Laor T, Cornwall R. **Three-Dimensional Magnetic Resonance Imaging of Glenohumeral Dysplasia in Neonatal Brachial Plexus Palsy.** *J Bone Joint Surg Am.* 2016; 98:142-51.
42. Emery KH, Zingula SN, Anton CG, Salisbury SR, Tamai J. **Pediatric Elbow Fractures: A New Angle on an Old Topic.** *Pediatr Radiol.* 2016; 46:61-6.
43. Epelman M, Merrow AC, Guimaraes CV, Victoria T, Calvo-Garcia MA, Kline-Fath BM. **Extrafetal Findings on Fetal Magnetic Resonance Imaging: A Pictorial Essay.** *Semin Ultrasound CT MR.* 2015; 36:550-67.
44. Fader LM, Laor T, Eismann EA, Cornwall R, Little KJ. **Eccentric Capitellar Ossification Limits the Utility of the Radiocapitellar Line in Young Children.** *J Pediatr Orthop.* 2016; 36:161-6.
45. Fan LL, Dishop MK, Galambos C, Askin FB, White FV, Langston C, Liptzin DR, Kroehl ME, Deutsch GH, Young LR, Kurland G, Hagood J, Dell S, Trapnell BC, Deterding RR, Children's I, Diffuse Lung Disease Research N. **Diffuse Lung Disease in Biopsied Children 2 to 18 Years of Age. Application of the Child Classification Scheme.** *Ann Am Thorac Soc.* 2015; 12:1498-505.
46. Florin T, Aronson P, Hall M, Kharbanda A, Shah S, Freedman S, Alpern E, Mistry R, Simon H, Berry J. **Emergency Department Use of Computed Tomography for Children with Ventricular Shunts.** *J Pediatr.* 2015; 167:1382.
47. Flynt K, Dillman J, Davenport M, Smith E, Else T, Strouse P, Caoili E. **Pediatric Adrenocortical Neoplasms: Can Imaging Reliably Discriminate Adenomas from Carcinomas?** *Pediatric Radiol.* 2015; 45:1160-68.
48. Franz DN, Agricola K, Mays M, Tudor C, Care MM, Holland-Bouley K, Berkowitz N, Miao S, Peyrard S, Krueger DA. **Everolimus for Subependymal Giant Cell Astrocytoma: 5-Year Final Analysis.** *Ann Neurol.* 2015; 78:929-38.
49. Gaballah M, Shi J, Kukreja K, Raffini L, Tarango C, Keller M, Krishnamurthy G, Racadio J, Patel M, Cahill AM. **Endovascular Thrombolysis in the Management of Iliofemoral Thrombosis in Children: A Multi-Institutional Experience.** *J Vasc Interv Radiol.* 2016; 27:524-30.
50. Gelfand MJ, Sharp SE. **[F-18]2-Fluoro-2-Deoxyglucose (Fdg) Positron Emission Tomography after Limb Salvage Surgery: Post-Surgical Appearance, Attenuation Correction and Local Complications.** *Pediatr Radiol.* 2015; 45:1182-8.
51. Gogela S, Abruzzo T, Gozal Y, Ringer A, Khatri P, Broderick J, Tomsick T. **160 Carotid Stenosis Significantly Delays Reperfusion During Endovascular Treatment of Stroke in the Ims-iii Trial.** *Neurosurg.* 2015; 62:218-18.
52. Gokli A, Neuman J, Lukse R, Koshy J, Kong F, Laor T. **Childhood Asymmetrical Labium Majus Enlargement Sonographic and Mr Imaging Appearances.** *Pediatr Radiol.* 2016; 46:674-9.
53. Golub JS, Weber JD, Leach JL, Pottschmidt NR, Zuccarello M, Pensak ML, Samy RN. **Feasibility of the Ultrasonic Bone Aspirator in Retrosigmoid Vestibular Schwannoma Removal.** *Otolaryngol Head Neck Surg.* 2015; 153:427-32.
54. Greiner H, Horn P, Tenney J, Arya R, Jain S, Holland K, Leach J, Miles L, Rose D, Fujiwara H, Mangano F. **Should Spikes on Post-Resection Ecog Guide Pediatric Epilepsy Surgery?** *Epilepsy Res.* 2016; 122:73-78.
55. Greiner HM, Horn PS, Tenney JR, Arya R, Jain SV, Holland KD, Leach JL, Miles L, Rose DF, Fujiwara H, Mangano FT. **Preresection Intraoperative Electroconvulsography (Ecog) Abnormalities Predict Seizure-Onset Zone and Outcome in Pediatric Epilepsy Surgery.** *Epilepsia.* 2016; 57:582-9.
56. Greiner MV, Greiner HM, Care MM, Owens D, Shapiro R, Holland K. **Adding Insult to Injury: Nonconvulsive Seizures in Abusive Head Trauma.** *J Child Neurol.* 2015; 30:1778-84.
57. Gulati G, Jones J, Lee G, Altaye M, Beebe D, Meyers-Eaton J, Wiley K, Brunner H, DiFrancesco M. **Blood Brain Barrier Permeability Is Altered in Patients with Systemic Lupus Erythematosus: A Novel Imaging Approach.** *Arthritis Care Res*

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58. Haggerty JE, Smith EA, Kunisaki SM, Dillman JR. **Ct Imaging of Congenital Lung Lesions: Effect of Iterative Reconstruction on Diagnostic Performance and Radiation Dose.** *Pediatr Radiol.* 2015; 45:989-97.
59. Hancu I, Fiveland E, Park K, Giaquinto R, Rohling K, Wiesinger F. **Flexible, 31-Channel Breast Coil for Enhanced Parallel Imaging Performance at 3t.** *Magn Reson Med.* 2016; 75:897-905.
60. Hawkins C, Kukreja K, Singewald T, Minevich E, Johnson N, Reddy P, Racadio J. **Use of Cone-Beam Ct and Live 3-D Needle Guidance to Facilitate Percutaneous Nephrostomy and Nephrolithotripsy Access in Children and Adolescents.** *Pediatric Radiol.* 2016; 46:570-74.
61. Heit JJ, Do HM, Prestigiacomo CJ, Delgado-Almandoz JA, English J, Gandhi CD, Albuquerque FC, Narayanan S, Blackham KA, Abruzzo T, Albani B, Fraser JF, Heck DV, Hussain MS, Lee SK, Ansari SA, Hetts SW, Bulsara KR, Kelly M, Arthur AS, et al. **Guidelines and Parameters: Percutaneous Sclerotherapy for the Treatment of Head and Neck Venous and Lymphatic Malformations.** *J Neurointerv Surg.* 2016.
62. Hekler L, Smith L, Sucharew H, Coley B, Klein M. **Pediatric Sonography Curriculum: A Matter of Patient Safety.** *J Diagn Med Sonogr.* 2016; 32:1-9.
63. Higano NS, Hahn AD, Tkach JA, Cao X, Walkup LL, Thomen RP, Merhar SL, Kingma PS, Fain SB, Woods JC. **Retrospective Respiratory Self-Gating and Removal of Bulk Motion in Pulmonary Ute Mri of Neonates and Adults.** *Magn Reson Med.* 2016.
64. Hoffman L, DeWire M, Ryall S, Buczkowicz P, Leach J, Miles L, Ramani A, Brudno M, Kumar S, Drissi R. **Spatial Genomic Heterogeneity in Diffuse Intrinsic Pontine and Midline High-Grade Glioma: Implications for Diagnostic Biopsy and Targeted Therapeutics.** pmc/PMC4700584. *Acta Neuropathol Commun.* 2016; 4:1.
65. Horowitz-Kraus T, Eaton K, Farah R, Hajinazarian A, Vannest J, Holland S. **Predicting Better Performance on a College Preparedness Test from Narrative Comprehension at the Age of 6 Years: An Fmri Study.** *Brain Res.* 2015; 1629:54-62.
66. Horowitz-Kraus T, Toro-Serey C, DiFrancesco M. **Increased Resting-State Functional Connectivity in the Cingulo-Opercular Cognitive-Control Network after Intervention in Children with Reading Difficulties.** *PLoS One.* 2015; 10:e0133762.
67. Hui FK, Abruzzo T, Ansari SA. **Endovascular Interventions for Idiopathic Intracranial Hypertension and Venous Tinnitus: New Horizons.** *Neuroimaging Clin N Am.* 2016; 26:289-99.
68. Hummel TR, Salloum R, Drissi R, Kumar S, Sobo M, Goldman S, Pai A, Leach J, Lane A, Pruitt D, Sutton M, Chow LM, Grimme L, Doughman R, Backus L, Miles L, Stevenson C, Fouladi M, DeWire M. **A Pilot Study of Bevacizumab-Based Therapy in Patients with Newly Diagnosed High-Grade Gliomas and Diffuse Intrinsic Pontine Gliomas.** *J Neurooncol.* 2016; 127:53-61.
69. Hutton JS, Horowitz-Kraus T, Mendelsohn AL, DeWitt T, Holland SK, C-Mind Authorship Consortium. **Home Reading Environment and Brain Activation in Preschool Children Listening to Stories.** *Pediatrics.* 2015; 136:466-78.
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71. Ishman SL, Tang A, Cohen AP, Babiker HE, Chini B, Ehsan Z, Fleck RJ, Gordon C, McPhail GL, Pan B, Saal HM, Shott SR, Amin RS. **Decision Making for Children with Obstructive Sleep Apnea without Tonsillar Hypertrophy.** *Otolaryngol Head Neck Surg.* 2016; 154:527-31.
72. Je BK, Kim HK, Horn PS. **Incidence and Spectrum of Renal Complications and Extrarenal Diseases and Syndromes in 380 Children and Young Adults with Horseshoe Kidney.** *AJR Am J Roentgenol.* 2015; 205:1306-14.
73. Johnston J, Kim H, Merrow A, Laor T, Serai S, Horn P, Kim D, Wong B. **Quantitative Skeletal Muscle Mri: Part I, Derived T2 Fat Map in Differentiation between Boys with Duchenne Muscular Dystrophy and Healthy Boys.** *Am J Roentgenol.* 2015; 205:W207-W14.

74. Johnston JH, Kline-Fath BM, Bitters C, Calvo-Garcia MA, Lim FY. **Congenital Overinflation: Prenatal Mri and Us Findings and Outcomes.** *Prenat Diagn.* 2016; 36:568-75.
75. Jones BV, Linscott L, Koberlein G, Hummel TR, Leach JL. **Increased Prevalence of Developmental Venous Anomalies in Children with Intracranial Neoplasms.** *AJNR Am J Neuroradiol.* 2015; 36:1782-5.
76. Jones J, DiFrancesco M, Zaal A, Klein-Gitelman M, Gitelman D, Ying J, Brunner H. **Childhood-Onset Lupus with Clinical Neurocognitive Dysfunction Shows Lower Streamline Density and Pairwise Connectivity on Diffusion Tensor Imaging.** *Lupus.* 2015; 24:1081-86.
77. Kadis D, Dimitrijevic A, Toro-Serey C, Smith M, Holland S. **Characterizing Information Flux within the Distributed Pediatric Expressive Language Network: A Core Region Mapped through Fmri-Constrained Meg Effective Connectivity Analyses.** pmc/PMC4744880. *Brain Connect.* 2016; 6:76-83.
78. Kelly M, Crotty E, Rattan M, Wirth K, Steenhoff A, Cunningham C, Arscott-Mills T, Boiditswe S, Chimfwembe D, David T. **Chest Radiographic Findings and Outcomes of Pneumonia among Children in Botswana.** *Pediatr Infect Dis J.* 2016; 35:257-62.
79. Kim DH, Carucci LR, Baker ME, Cash BD, Dillman JR, Feig BW, Fowler KJ, Gage KL, Noto RB, Smith MP, Yaghmai V, Yee J, Lalani T. **Acr Appropriateness Criteria Crohn Disease.** *J Am Coll Radiol.* 2015; 12:1048-57 e4.
80. Kim H, Serai S, Lindquist D, Merrow A, Horn P, Kim D, Wong B. **Quantitative Skeletal Muscle Mri: Part 2, Mr Spectroscopy and T2 Relaxation Time Mapping-Comparison between Boys with Duchenne Muscular Dystrophy and Healthy Boys.** *Am J Roentgenol.* 2015; 205:W216-W23.
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82. Kim HK, Horn P, Dardzinski BJ, Kim DH, Laor T. **T2 Relaxation Time Mapping of the Cartilage Cap of Osteochondromas.** *Korean J Radiol.* 2016; 17:159-65.
83. Kosnik-Infinger L, Carroll C, Greiner H, Leach J, Mangano FT. **Management of Cerebral Cavernous Malformations in the Pediatric Population: A Literature Review and Case Illustrations.** *J Neurosurg Sci.* 2015; 59:283-94.
84. Kraus SJ. **Radiologic Diagnosis of a Newborn with Cloaca.** *Semin Pediatr Surg.* 2016; 25:76-81.
85. Kunze C, Mentzel H-J, Krishnamurthy R, Fleck R, Stenzel M, Bhargava R, Burrowes D, Sutter G, Schultze-Mosgau M, Santiuste M. **Pharmacokinetics and Safety of Macrocyclic Gadobutrol in Children Aged Younger Than 2 Years Including Term Newborns in Comparison to Older Populations.** *Invest Radiol.* 2016; 51:50-57.
86. Kurbanov A, Zimmer LA, Theodosopoulos PV, Leach JL, Keller JT. **An Endoscopic Roadmap of the Internal Carotid Artery.** *Neurosurgery.* 2015; 77:E153-4.
87. Lang S, Shugh S, Mazur W, Sticka J, Rattan M, Jefferies J, Taylor M. **Myocardial Fibrosis and Left Ventricular Dysfunction in Duchenne Muscular Dystrophy Carriers Using Cardiac Magnetic Resonance Imaging.** *Pediatric Cardiol.* 2015; 36:1495-501.
88. Laor T, Clarke JP, Yin H. **Development of the Long Bones in the Hands and Feet of Children: Radiographic and Mr Imaging Correlation.** *Pediatr Radiol.* 2016; 46:551-61; quiz 48-50.
89. Lavine SD, Cockroft K, Hoh B, Bambakidis N, Khalessi AA, Woo H, Riina H, Siddiqui A, Hirsch JA, Chong W, Rice H, Wenderoth J, Mitchell P, Coulthard A, Signh TJ, Phatorous C, Khangure M, Klurfan P, terBrugge K, Iancu D, et al. **Training Guidelines for Endovascular Ischemic Stroke Intervention: An International Multi-Society Consensus Document.** *AJNR Am J Neuroradiol.* 2016; 37:E31-4.
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91. Lee I, Leach J, Tomsick T, Flaherty ML. **Pearls & Oy-Sters: Cerebral Venous Sinus Thrombosis Involving a Persistent Falcine Sinus.** *Neurology*. 2015; 85:e162-4.
92. Lee SK, Hetts SW, Halbach V, terBrugge K, Ansari SA, Albani B, Abruzzo T, Arthur A, Alexander MJ, Albuquerque FC, Baxter B, Bulsara KR, Chen M, Delgado Almandoz JE, Fraser JF, Frei D, Gandhi CD, Heck D, Hussain MS, Kelly M, et al. **Standard and Guidelines: Intracranial Dural Arteriovenous Shunts.** *J Neurointerv Surg*. 2015.
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94. Li Y, Wang H, Tkach J, Roach D, Woods J, Dumoulin C. **Wavelet-Space Correlation Imaging for High-Speed Mri without Motion Monitoring or Data Segmentation.** *Magn Reson Med*. 2015; 74:1574-86.
95. Li Y, Xie C, Murphy SK, Skaar D, Nye M, Vidal AC, Cecil KM, Dietrich KN, Puga A, Jirtle RL, Hoyo C. **Lead Exposure During Early Human Development and DNA Methylation of Imprinted Gene Regulatory Elements in Adulthood.** *Environ Health Perspect*. 2016; 124:666-73.
96. Lin PJ, Schueler BA, Balter S, Strauss KJ, Wunderle KA, LaFrance MT, Kim DS, Behrman RH, Shepard SJ, Bercha IH. **Accuracy and Calibration of Integrated Radiation Output Indicators in Diagnostic Radiology: A Report of the Aapm Imaging Physics Committee Task Group 190.** *Med Phys*. 2015; 42:6815-29.
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98. Linscott LL, Leach JL, Jones BV, Abruzzo TA. **Developmental Venous Anomalies of the Brain in Children -- Imaging Spectrum and Update.** *Pediatr Radiol*. 2016; 46:394-406; quiz 391-3.
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Grants, Contracts, and Industry Agreements

Annual Grant Award Dollars

Investigator	Title	Sponsor	ID	Dates	Amount
Todd A Abruzzo, MD	Ultrasound-assisted Thrombolysis for Stroke Therapy	National Institutes of Health (University of Cincinnati)	R01 NS047603	8/15/2014 - 7/31/2019	\$114,741
Charles Dumoulin, PHD	27th Annual Workshop on MR Angiography	National Institutes of Health	R13 HL129736	8/1/2015 - 7/31/2016	\$10,000
Scott K Holland, PHD	Longitudinal Assessment of Manic Symptoms (LAMS)	National Institutes of Health	R01 MH073816	3/3/2016 - 2/28/2017	\$35,880
James L Leach, MD	COG NCTN Network Group Operations Center	National Institutes of Health (Children's Hospital of Philadelphia)	U10 CA180886	3/1/2015 - 2/29/2016	\$3,199
Gregory Ryan Lee, PHD	Comprehensive Quantitative Ultrafast 3D Liver MRI	National Institutes of Health (Case Western University)	R01 DK098503	8/1/2013 - 7/31/2018	\$25,314
Yu Li, PHD	Real-time Pediatric Cardiovascular MRI without Breath Holding, ECG Monitoring or Respiratory Navigation	National Institutes of Health	R01 EB022405	4/1/2016 - 3/31/2020	\$347,220
Diana M Lindquist, PHD	Risk and Resilience Factors for Frontolimbic Connectivity Deficits	National Institutes of Health (University of Cincinnati)	R01 MH107378	3/9/2016 - 1/31/2020	\$86,192
Alexander Towbin, MD	COG NCTN Network Group Operations Center	National Institutes of Health (Children's Hospital of Philadelphia)	U10 CA180886	1/1/2015 - 12/31/2015	\$1,999
Total Annual Grant Award Dollars					\$624,545

Annual Industry Award Dollars

Investigator	Industry Sponsor	Amount
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Kim M Cecil, PHD	Lumos Pharma, Inc.	\$50,000
Jonathan R Dillman, MD-MS	Siemens Medical Solutions USA, Inc.	\$17,500
Alexander Towbin, MD	Guerbet LLC	\$122,485
Alexander Towbin, MD	Siemens Medical Solutions USA, Inc.	\$13,023
Total Annual Industry Award Dollars		\$203,008