Stanford



Patrick Barnes

Professor of Radiology (Pediatric Radiology) at the Stanford University Medical Center, Emeritus

NIH Biosketch available Online Curriculum Vitae available Online Resume available Online

CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr. Barnes is a pediatric radiologist and pediatric neuroradiologist practicing for 41 years. He has served as the Chief of the Section of Pediatric Neuroradiology and the inaugural Director of the Pediatric MRI and CT Center at the Lucile Packard Children's Hospital at Stanford (2000-2018), as well as, Professor of Radiology of the Stanford School of Medicine. He is also a founding member of the Child Abuse Task Force and SCAN (suspected child abuse and neglect) Team for LPCH-Stanford. Previously, Dr. Barnes was Chief of the Division of Neuroradiology and inaugural Director of the MRI Center at the Children's Hospital, Boston, Massachusetts (1986-1999), and Associate Professor of Radiology, Harvard Medical School. Prior to that he was a pediatric radiologist and Chief of Pediatric Neuroradiology, as well as, inaugural Co-Director of the MRI Center at the Oklahoma Children's Memorial Hospital and Oklahoma Memorial Hospital (1977-1986), and Associate Professor of the University of Oklahoma College of Medicine (see CV, Biosketch, Resume attached, Patrick D. Barnes,MD <en.m.wikipedia.org>).

The main focus of his clinical, teaching, and research career has been the development and implementation of magnetic resonance imaging (MRI) as the most advanced and non-invasive technology for imaging of injury to the developing central nervous system and related body systems of the fetus, newborn, infant, and child, including for the assessment of child abuse and the mimics of child abuse. He co-authored the first comprehensive textbook on the utilization of US, CT, and MRI in pediatric neuroradiology (Wolpert S, Barnes P: MRI in Pediatric Neuroradiology, Mosby-Year Book,1992). Dr. Barnes was the first dedicated children's hospital-based pediatric neuroradiologist in Northern California (LPCH-Stanford 2000). He is Co-Founder and Past President of the American Society of Pediatric Neuroradiology (1998; see CV, Patrick D. Barnes,MD <en.m.wikipedia.org>), and past Chair of the Child Abuse Task Force of the Society for Pediatric Radiology (2007; see Resume, Patrick D. Barnes,MD <en.m.wikipedia.org>). More recently, he has served as pediatric neuroradiology consultant and lead central reviewer for the Neonatal Research Network (NRN) of the NIH / NICHD for their multicenter projects assessing the utility of imaging technology for preterm and term fetal and neonatal brain injury, including interventions and outcomes (2006-2018; see Biosketch, Patrick D. Barnes,MD <en.m.wikipedia.org>).

"It has been my inspiration and honor not only to contribute to the training and education of students, residents, and fellows from all backgrounds, and proudly including those serving in our Armed Forces, but also to teach, mentor, and promote diversity, of future leaders in pediatric radiology and

neuroradiology (see CV, Patrick D. Barnes,MD <en.m.wikipedia.org>).). It has also been my honor to work every day with a talented and diverse team of radiologic technology, information technology, physician, nursing, child life, scheduling coordinater, administrative, management, and scientific research professionals, all dedicated to the quality and compassionate care of children and families who come to us from all social and cultural communities across our nation and the world."

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Radiology
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Chief Pediatric Neuroradiology, Co-Founding Director MRI Center., Oklahoma Children's Memorial Hospital, Oklahoma Health Sciences Center, Oklahoma City OK., (1977-1986)
- Chief Division of Neuroradiology, Inaugural Director MRI Center., Children's Hospital, Harvard Medical Center, Boston MA, (1986-1999)
- Chief Section of Pediatric Neuroradiology, Inaugural Director Pediatric MRI and CT Center, Lucile Packard Children's Hospital at Stanford, (2000-2018)

HONORS AND AWARDS

- John A. Kirkpatrick Jr. Faculty Teaching Award, Department of Radiology, Children's Hospital and Harvard Medical School, Boston, MA. (1998)
- Award of Appreciation for Service & Leadership as Co-Founder, Past President, ASPNR, American Society of Pediatric Neuroradiology, ASNR 39th Annual Meeting, Boston, MA. (2001)
- SB Rossiter Senior Faculty of the Year. Outstanding Resident Education, Patient Care, and Research., Department of Radiology, Stanford University Medical Center. (2002-2003)
- Senior Faculty of the Year. Outstanding Resident Education, Patient Care, and Research., Department of Radiology, Stanford University Medical Center. (2004-2005)
- Senior Faculty of the Year. Outstanding Resident Education, Patient Care, and Research., Department of Radiology, Stanford University Medical Center. (2005-2006)
- 11th Annual Herman Grossman Lecturer - Appreciation of Contributions to Pediatric Radiology., Department of Radiology, Duke University Medical Center (2008.)
- An America's Top Doctor (Top 1% of neuroradiologists in the nation for 5 years), US News & World Report, Castle Connolly Medical Ltd. <health.usnews.com/top-doctors>. (2012-2018)

PROFESSIONAL EDUCATION

- Maintenance of Certification, American Board of Radiology , Neuroradiology 2008-2018 (2008)
- Fellowship, Children's Hospital, Harvard Medical School, Boston MA , Pediatric Neuroradiology & Cardiovascular Radiology (1977)
- Residency, University of Oklahoma Health Sciences Center , Diagnostic Radiology (1976)
- MD, University of Oklahoma , Medicine with Honors, AOA (1973)

LINKS

- Wikipedia Citation: https://en.m.wikipedia.org

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Advanced imaging, including magnetic resonance imaging, of injury to the developing central nervous system; including fetal, neonatal, infant and young child; and, including nonaccidental injury (e.g. child abuse).

See Biosketch, CV for details.

Publications

PUBLICATIONS

- **Limitations of Conventional Magnetic Resonance Imaging as a Predictor of Death or Disability Following Neonatal Hypoxic-Ischemic Encephalopathy in the Late Hypothermia Trial.** *The Journal of pediatrics*
  Laptook, A. R., Shankaran, S., Barnes, P., Rollins, N., Do, B. T., Parikh, N. A., Hamrick, S., Hintz, S. R., Tyson, J. E., Bell, E. F., Ambalavanan, N., Goldberg, R. N., Pappas, et al
  2020

- **FEIGNED CONSENSUS: USURPING THE LAW IN SHAKEN BABY SYNDROME/ABUSIVE HEAD TRAUMA PROSECUTIONS** *WISCONSIN LAW REVIEW*
  Findley, K. A., Risinger, D., Barnes, P. D., Mack, J. A., Moran, D. A., Scheck, B. C., Bohan, T. L.
  2019: 1211–67

- **Behavioral Deficits at 18-22 Months of Age Are Associated with Early Cerebellar Injury and Cognitive and Language Performance in Children Born Extremely Preterm.** *The Journal of pediatrics*
  Duncan, A. F., Bann, C. M., Dempsey, A., Peralta-Carcelen, M., Hintz, S., Eunice Kennedy Shriver National Institute of Child Health and Development Neonatal Research Network, Jobe, A. H., Caplan, M. S., Laptook, A. R., Vohr, B. R., Oh, W., Hensman, A. M., Alksninis, B., et al
  2018

- **Utility of prenatal MRI in the evaluation and management of fetal ventriculomegaly.** *Journal of perinatology : official journal of the California Perinatal Association*
  Katz, J. A., Chock, V. Y., Davis, A. S., Blumenfeld, Y. J., Hahn, J. S., Barnes, P., Barth, R. A., Rubesova, E., Hintz, S. R.
  2018

- **Preterm Neuroimaging and School-Age Cognitive Outcomes.** *Pediatrics*
  Hintz, S. R., Vohr, B. R., Bann, C. M., Taylor, H. G., Das, A., Gustafson, K. E., Yolton, K., Watson, V. E., Lowe, J., DeAnda, M. E., Ball, M. B., Finer, N. N., Van Meurs, et al
  2018

- **Brain Perfusion and Diffusion Abnormalities in Children Treated for Posterior Fossa Brain Tumors.** *journal of pediatrics*
  Li, M. D., Forkert, N. D., Kundu, P., Ambler, C., Lober, R. M., Burns, T. C., Barnes, P. D., Gibbs, I. C., Grant, G. A., Fisher, P. G., Cheshier, S. H., Campen, C. J., Monje, et al
  2017

- **Incidental brain MRI findings in an autism twin study.** *Autism research*
  Monterrey, J. C., Philips, J., Cleveland, S., Tanaka, S., Barnes, P., Hallmayer, J. F., Reiss, A. L., Lazzeroni, L. C., Hardan, A. Y.
  2017; 10 (1): 113-120

- **Acute Perinatal Sentinel Events, Neonatal Brain Injury Pattern, and Outcome of Infants Undergoing a Trial of Hypothermia for Neonatal Hypoxic-Ischemic Encephalopathy** *JOURNAL OF PEDIATRICS*
  Shankaran, S., Laptook, A. R., McDonald, S. A., Hintz, S. R., Barnes, P. D., Das, A., Higgins, R. D.
  2017; 180: 275-?

- **Acute Perinatal Sentinel Events, Neonatal Brain Injury Pattern, and Outcome of Infants Undergoing a Trial of Hypothermia for Neonatal Hypoxic-Ischemic Encephalopathy.** *journal of pediatrics*
  Shankaran, S., Laptook, A. R., McDonald, S. A., Hintz, S. R., Barnes, P. D., Das, A., Higgins, R. D.
  2016

- **Neonatal Magnetic Resonance Imaging Pattern of Brain Injury as a Biomarker of Childhood Outcomes following a Trial of Hypothermia for Neonatal Hypoxic-Ischemic Encephalopathy** *JOURNAL OF PEDIATRICS*
  Shankaran, S., McDonald, S. A., Laptook, A. R., Hintz, S. R., Barnes, P. D., Das, A., Pappas, A., Higgins, R. D.
  2015; 167 (5): 987-?

- **Neonatal Magnetic Resonance Imaging Pattern of Brain Injury as a Biomarker of Childhood Outcomes following a Trial of Hypothermia for Neonatal Hypoxic-Ischemic Encephalopathy.** *The Journal of pediatrics*
  Shankaran, S., McDonald, S. A., Laptook, A. R., Hintz, S. R., Barnes, P. D., Das, A., Pappas, A., Higgins, R. D.
  2015; 167 (5): 987-93.e3

- **Intensity-Corrected Dual-Echo Echo-Planar Imaging (DE-EPI) for Improved Pediatric Brain Diffusion Imaging** *PLOS ONE*

Yeom, K. W., Straka, M., Iv, M., Moseley, M. E., Barnes, P. D., Skare, S., Holdsworth, S. J.
2015; 10 (6)

- **The Significance of Macrocephaly or Enlarging Head Circumference in Infants With the Triad Further Evidence of Mimics of Shaken Baby Syndrome** *AMERICAN JOURNAL OF FORENSIC MEDICINE AND PATHOLOGY*
  Miller, D., Barnes, P., Miller, M.
  2015; 36 (2): 111-120
- **Decreased tumor apparent diffusion coefficient correlates with objective response of pediatric low-grade glioma to bevacizumab** *JOURNAL OF NEURO-ONCOLOGY*
  Hsu, C. H., Lober, R. M., Li, M. D., Partap, S., Murphy, P. A., Barnes, P. D., Fisher, P. G., Yeom, K. W.
  2015; 122 (3): 491-496
- **Effect of number of acquisitions in diffusion tensor imaging of the pediatric brain: optimizing scan time and diagnostic experience.** *Journal of neuroimaging*
  Soman, S., Holdsworth, S. J., Skare, S., Andre, J. B., Van, A. T., Aksoy, M., Bammer, R., Rosenberg, J., Barnes, P. D., Yeom, K. W.
  2015; 25 (2): 296-302
- **Neuroimaging and neurodevelopmental outcome in extremely preterm infants.** *Pediatrics*
  Hintz, S. R., Barnes, P. D., Bulas, D., Slovis, T. L., Finer, N. N., Wrage, L. A., Das, A., Tyson, J. E., Stevenson, D. K., Carlo, W. A., Walsh, M. C., Laptook, A. R., Yoder, et al
  2015; 135 (1): e32-42
- **Neuroimaging and neurodevelopmental outcome in extremely preterm infants.** *Pediatrics*
  Hintz, S. R., Barnes, P. D., Bulas, D., Slovis, T. L., Finer, N. N., Wrage, L. A., Das, A., Tyson, J. E., Stevenson, D. K., Carlo, W. A., Walsh, M. C., Laptook, A. R., Yoder, et al
  2015; 135 (1): e32-42
- **Intensity-Corrected Dual-Echo Echo-Planar Imaging (DE-EPI) for Improved Pediatric Brain Diffusion Imaging.** *PloS one*
  Yeom, K. W., Straka, M., Iv, M., Moseley, M. E., Barnes, P. D., Skare, S., Holdsworth, S. J.
  2015; 10 (6)
- **Diffusion-weighted MRI derived apparent diffusion coefficient identifies prognostically distinct subgroups of pediatric diffuse intrinsic pontine glioma.** *Journal of neuro-oncology*
  Lober, R. M., Cho, Y., Tang, Y., Barnes, P. D., Edwards, M. S., Vogel, H., Fisher, P. G., Monje, M., Yeom, K. W.
  2014; 117 (1): 175-182
- **Arterial spin-labeled perfusion of pediatric brain tumors.** *AJNR. American journal of neuroradiology*
  Yeom, K. W., MITCHELL, L. A., Lober, R. M., Barnes, P. D., Vogel, H., Fisher, P. G., Edwards, M. S.
  2014; 35 (2): 395-401
- **Improved T2* Imaging without Increase in Scan Time: SWI Processing of 2D Gradient Echo.** *AJNR. American journal of neuroradiology*
  Soman, S., Holdsworth, S. J., Barnes, P. D., Rosenberg, J., Andre, J. B., Bammer, R., Yeom, K. W.
  2013; 34 (11): 2092-2097
- **Increased focal hemosiderin deposition in pediatric medulloblastoma patients receiving radiotherapy at a later age Clinical article** *JOURNAL OF NEUROSURGERY-PEDIATRICS*
  Yeom, K. W., Lober, R. M., Partap, S., Telischak, N., Tsolinas, R., Barnes, P. D., Edwards, M. S.
  2013; 12 (5): 444-451
- **Increased focal hemosiderin deposition in pediatric medulloblastoma patients receiving radiotherapy at a later age.** *Journal of neurosurgery. Pediatrics*
  Yeom, K. W., Lober, R. M., Partap, S., Telischak, N., Tsolinas, R., Barnes, P. D., Edwards, M. S.
  2013; 12 (5): 444-451
- **Reduced Cerebral Arterial Spin-Labeled Perfusion in Children with Neurofibromatosis Type 1** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Yeom, K. W., Lober, R. M., Barnes, P. D., Campen, C. J.
  2013; 34 (9): 1823-1828
- **High-Risk Medulloblastoma: A Pediatric Oncology Group Randomized Trial of Chemotherapy Before or After Radiation Therapy (POG 9031)** *JOURNAL OF CLINICAL ONCOLOGY*

Tarbell, N. J., Friedman, H., Polkinghorn, W. R., Yock, T., Zhou, T., Chen, Z., Burger, P., Barnes, P., Kun, L.
2013; 31 (23): 2936-?

- **Prognostic role for diffusion-weighted imaging of pediatric optic pathway glioma.** *Journal of neuro-oncology*
  Yeom, K. W., Lober, R. M., Andre, J. B., Fisher, P. G., Barnes, P. D., Edwards, M. S., Partap, S.
  2013; 113 (3): 479-483
- **Distinctive MRI Features of Pediatric Medulloblastoma Subtypes** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  Yeom, K. W., Mobley, B. C., Lober, R. M., Andre, J. B., Partap, S., Vogel, H., Barnes, P. D.
  2013; 200 (4): 895-903
- **Brain injury following trial of hypothermia for neonatal hypoxic-ischaemic encephalopathy** *ARCHIVES OF DISEASE IN CHILDHOOD-FETAL AND NEONATAL EDITION*
  Shankaran, S., Barnes, P. D., Hintz, S. R., Laptook, A. R., Zaterka-Baxter, K. M., McDonald, S. A., Ehrenkranz, R. A., Walsh, M. C., Tyson, J. E., Donovan, E. F., Goldberg, R. N., Bara, R., Das, et al
  2012; 97 (6): F398-F404
- **Diffusion tensor imaging (DTI) with retrospective motion correction for large-scale pediatric imaging** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Holdsworth, S. J., Aksoy, M., Newbould, R. D., Yeom, K., Van, A. T., Ooi, M. B., Barnes, P. D., Bammer, R., Skare, S.
  2012; 36 (4): 961-971
- **Newborn with prenatally diagnosed choroidal fissure cyst and panhypopituitarism and review of the literature.** *AJP reports*
  Chitkara, R., Rajani, A., Bernstein, J., Shah, S., Hahn, J. S., Barnes, P., Hintz, S. R.
  2011; 1 (2): 111-114
- **Clinical Application of Readout-Segmented-Echo-Planar Imaging for Diffusion-Weighted Imaging in Pediatric Brain** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Holdsworth, S. J., Yeom, K., Skare, S., Gentles, A. J., Barnes, P. D., Bammer, R.
  2011; 32 (7): 1274-1279
- **Liposomal cytarabine for central nervous system embryonal tumors in children and young adults** *JOURNAL OF NEURO-ONCOLOGY*
  Partap, S., Murphy, P. A., Vogel, H., Barnes, P. D., Edwards, M. S., Fisher, P. G.
  2011; 103 (3): 561-566
- **Imaging of Nonaccidental Injury and the Mimics: Issues and Controversies in the Era of Evidence-Based Medicine** *RADIOLOGIC CLINICS OF NORTH AMERICA*
  Barnes, P. D.
  2011; 49 (1): 205-?
- **Septopreoptic Holoprosencephaly: A Mild Subtype Associated with Midline Craniofacial Anomalies** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Hahn, J. S., Barnes, P. D., Clegg, N. J., Stashinko, E. E.
  2010; 31 (9): 1596-1601
- **Infant Acute Life-Threatening Event-Dysphagic Choking Versus Nonaccidental Injury** *SEMINARS IN PEDIATRIC NEUROLOGY*
  Barnes, P. D., Galaznik, J., Gardner, H., Shuman, M.
  2010; 17 (1): 7-11
- **Neuroimaging Advances in Holoprosencephaly: Refining the Spectrum of the Midline Malformation** *AMERICAN JOURNAL OF MEDICAL GENETICS PART C-SEMINARS IN MEDICAL GENETICS*
  Hahn, J. S., Barnes, P. D.
  2010; 154C (1): 120-132
- **Are Paterson's critics too biased to recognize rickets?** *ACTA PAEDIATRICA*
  Ayoub, D., Plunkett, J., Keller, K. A., Barnes, P. D.
  2010; 99 (9): 1282-1283
- **Resolution of syringomyelia after release of tethered cord** *SURGICAL NEUROLOGY*
  Hsu, A. R., Hou, L. C., Veeravagu, A., Barnes, P. D., Huhn, S. L.
  2009; 72 (6): 657-661

- **Performance of PROPELLER relative to standard FSE T2-weighted imaging in pediatric brain MRI** *PEDIATRIC RADIOLOGY*
  Vertinsky, A. T., Rubesova, E., Krasnokutsky, M. V., Bammer, S., Rosenberg, J., White, A., Barnes, P. D., Bammer, R.
  2009; 39 (10): 1038-1047

- **Reply regarding rickets vs. abuse: the evidence** *PEDIATRIC RADIOLOGY*
  Keller, K. A., Barnes, P. D.
  2009; 39 (10): 1130–32

- **Neonatal brain structure on MRI and diffusion tensor imaging, sex, and neurodevelopment in very-low-birthweight preterm children** *DEVELOPMENTAL MEDICINE AND CHILD NEUROLOGY*
  Rose, J., Butler, E. E., Lamont, L. E., Barnes, P. D., Atlas, S. W., Stevenson, D. K.
  2009; 51 (7): 526-535

- **Salivary Gland Anlage Tumor in a Neonate Presenting with Respiratory Distress: Radiographic and Pathologic Correlation** *AMERICAN JOURNAL OF NEURORADIOLOGY*
  Mogensen, M. A., Lin, A. C., Chang, K. W., Berry, G. J., Barnes, P. D., Fischbein, N. J.
  2009; 30 (5): 1022-1023

- **Traumatic Spinal Cord Injury: Accidental Versus Nonaccidental Injury** *SEMINARS IN PEDIATRIC NEUROLOGY*
  Barnes, P. D., Krasnokutsky, M. V., Monson, K. L., Ophoven, J.
  2008; 15 (4): 178-184

- **Rickets vs. abuse: a national and international epidemic** *PEDIATRIC RADIOLOGY*
  Keller, K. A., Barnes, P. D.
  2008; 38 (11): 1210-1216

- **Correlation of Clinical and Biochemical Findings with Diabetic Ketoacidosis-Related Cerebral Edema in Children Using Magnetic Resonance Diffusion-Weighted Imaging** *JOURNAL OF PEDIATRICS*
  Glaser, N. S., Marcin, J. P., Wootton-Gorges, S. L., Buonocore, M. H., Rewers, A., Strain, J., DiCarlo, J., Neely, E. K., Barnes, P., Kuppermann, N.
  2008; 153 (4): 541-546

- **Can magnetic resonance spectroscopy predict neurodevelopmental outcome in very low birth weight preterm infants?** *Annual Meeting of the Pediatric-Academic-Societies/Society-of-Pediatric-Research*
  Augustine, E. M., Spielman, D. M., Barnes, P. D., Sutcliffe, T. L., Dermon, J. D., Mirmiran, M., Clayton, D. B., Ariagno, R. L.
  NATURE PUBLISHING GROUP.2008: 611–18

- **Doxycycline sclerotherapy as primary treatment of head and neck lymphatic malformations in children** *JOURNAL OF PEDIATRIC SURGERY*
  Nehra, D., Jacobson, L., Barnes, P., Mallory, B., Albanese, C. T., Sylvester, K. G.
  2008; 43 (3): 451-460

- **Utility of temporal bone computed tomographic measurements in the evaluation of inner ear malformations** *ARCHIVES OF OTOLARYNGOLOGY-HEAD & NECK SURGERY*
  Chen, J. L., Gittleman, A., Barnes, P. D., Chang, K. W.
  2008; 134 (1): 50-56

- **Congenital glioblastoma multiforme: Case report and review of the literature** *PEDIATRIC NEUROSURGERY*
  Hou, L. C., Bababeygy, S. R., Sarkissian, V., Fisher, P. G., Vogel, H., Barnes, P., Huhn, S. L.
  2008; 44 (4): 304-312

- **Neonatal microstructural development of the internal capsule on diffusion tensor imaging correlates with severity of gait and motor deficits** *DEVELOPMENTAL MEDICINE AND CHILD NEUROLOGY*
  Rose, J., Mirmiran, M., Butler, E. E., Lin, C. Y., Barnes, P. D., Kermoian, R., Stevenson, D. K.
  2007; 49 (10): 745-750

- **Cerebral proton magnetic resonance spectroscopy in children with diabetic ketoacidosis** *AMERICAN JOURNAL OF NEURORADIOLOGY*
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- **Imaging of the central nervous system in suspected or alleged nonaccidental injury, including the mimics.** *Topics in magnetic resonance imaging*

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- **Macrocephaly, increased intracranial pressure, and hydrocephalus in the infant and young child.** *Topics in magnetic resonance imaging*
  Vertinsky, A. T., Barnes, P. D.
  2007; 18 (1): 31-51

- **A syndrome of irreversible leukoencephalopathy following pediatric allogeneic bone marrow transplantation** *PEDIATRIC BLOOD & CANCER*
  Minn, A. Y., Fisher, P. G., Barnes, P. D., Dahl, G. V.
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- **Frequency of sub-clinical cerebral edema in children with diabetic ketoacidosis** *PEDIATRIC DIABETES*
  Glaser, N. S., Wootton-Gorges, S. L., Buonocore, M. H., Marcin, J. P., Rewers, A., Strain, J., DiCarlo, J., Neely, E. K., Barnes, P., Kuppermann, N.
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  Van Brussel, E. M., Mirmiran, M., Spielman, D. M., Barnes, P. D., Sutcliffe, T. L., Dermon, J. D., Ariagno, R. L.
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- **Mechanism of cerebral edema in children with diabetic ketoacidosis** *JOURNAL OF PEDIATRICS*
  Glaser, N. S., Wootton-Gorges, S. L., Marcin, J. P., Buonocore, M. H., DiCarlo, J., Neely, E. K., Barnes, P., Bottomly, J., Kuppermann, N.
  2004; 145 (2): 164-171

- **A sojourn in the abyss: Hypothesis, theory, and established truth in infant head injury** *PEDIATRICS*
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