Pediatric Neurosurgeon at Children’s Healthcare Atlanta

- Dr Reisner has been instrumental in advancing pediatric neurotrauma care and research across the South East. He spearheaded the Neurotrauma Programs at Children’s Healthcare of Atlanta and maintains an active clinical surgical program with focuses on trauma, brain tumors and craniofacial abnormalities.

- A Traumatic Brain Injury Fund was established in his honor by grateful patient families for whom Dr. Reisner played a life-saving role. Resources from this fund enhance care and improve care for children who have suffered a traumatic brain injury.
Children’s Healthcare of Atlanta
Concussion Conference
2019

Andrew Reisner, MD, FACS, FAAP
Medical Director, Neurotrauma Programs
Elaine and John C. Carlos Chair for Neurotrauma
Greetings from Atlanta, Georgia USA
Greetings from Children’s Healthcare of Atlanta

- Tertiary hospital serving a metro area of > 6 million
- Level 1 Trauma Center
- 604 total beds (including 74 ICU, 27 cardiac ICU and 80 NICU beds)

2017:
- 26,553 inpatient admission
- 1,378 pediatric neurosurgical procedures (total)
- 2 Neurotrauma programs

- Severe TBI Program: Admissions – 243

- Concussion Program
  - Emergency Dept. - 1,413
  - Concussion Nurse Line Calls - 8,234
Housekeeping

- Cell Phones
- Video and photography
- Professional Credits
- Presentations online
- Speakers time
- Questions for the Panel
- Bathrooms
- Disclosures
Disclosures

Andrew Reisner, MD
• Children’s Healthcare of Atlanta (CHOA) Friends Research Grant
• Carlos Chair for Neurotrauma
• NIH R21NS103507: Osteopontin as a Blood Biomarker in Pediatric Trauma Brain Injury

Chia-Yi Kuan, MD, PhD
• NIH R01NS084744: Mechanisms and Experimental Therapy of Perinatal Cerebral Hemorrhage
• NIH R21NS093446: Microglia-Monocyte Interactions following Perinatal Brain Injury
• NIH R01NS095064: Crosstalk of Innate and Adaptive Immunity in Infection-Sensitized Neonatal HIE
• NIH R21NS100419: Monocyte-Derived Microglia after Maternal Immune Activation and Neonatal HIE

Iqbal Sayeed, PhD
• VHA: RX2002389: Therapeutic Actions of GSK-3 Inhibition in rmTBI

Laura Blackwell, PhD: No disclosures

There are no other financial interests to disclose.
Children’s Healthcare of Atlanta

Special Thanks to our Supporter

Andee’s ARMY
Child Brain & Spinal Cord Foundation

• Atlanta-based 501(c)3 non-profit dedicated to funding the recovery and rehabilitation of children who have sustained brain and spinal cord injuries.

• Provide grants tailored to the unique individual recovery of each patient.
CHOA Experience

“The farther backward you can look, the farther forward you can see.”
- Winston Churchill

Severe TBI program – 10 years ago
- 4 years after inception – 1st guidelines passed by CHOA’s Medical Executive Committee

Concussion program – 6 years ago
- CHOA Concussion Program endorsed by GA Dept of Health #1 on Google search

The present...
Children’s Concussion Program:

**What**
- Multi-disciplinary Program launched June, 2011
- Emergency
- Neurology
- Neuropsychology
- Sports Medicine
- Urgent Care
- Neurosurgery
- Physiatry
- Community Physicians

**Why**
- Be the State’s resource
- Ensure access
Concussion Program: Total Volume

Concussion Volumes: Jan 2010-June 2018

Concussion Nurse Calls: 48,693

Emergency and Urgent Care Visits (Pri & Sec Dx): 14,649

Change in reporting methodology to include secondary concussion Dx and Hughes Spalding ED
Emphasis on Research

- Presentations
- Publications
- Book Chapters
- Grants
Partner with Community

- 31 Affiliated Schools
- 6 Swim Clubs
- 11 Gymnastic Clubs
- 6 Dance Clubs
Program Reach

91,088 web hits since 2014
Concussion: Not as innocuous as previously thought

• Second impact - Possibly due to impaired autoregulation / hyperemia

• Predominantly seen in pediatric/ adolescent patients