



## Angela K. Lumba-Brown

- Clinical Associate Professor, Emergency Medicine
- Clinical Associate Professor, Pediatrics

### **CLINICAL OFFICE (PRIMARY)**

- **PAMF Palo Alto Pediatric Center**

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### **Bio**

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#### **BIO**

Angela Lumba-Brown, MD, is a recognized traumatic brain injury expert, physician leader, and clinician-scientist in pediatrics and emergency medicine at Stanford University, nationally, and internationally. She is an academic pediatric emergency medicine physician with expertise in injury, neuroscience, and neurocritical emergencies. She is a graduate of the Stanford Leadership Development Program as well as the Stanford Center for Compassion and Altruism, and she uses these skills in addition to formal training in mindfulness and meditation to support her patients, colleagues, and community.

Dr. Lumba-Brown is an Associate Professor of Emergency Medicine and Pediatrics, and previously by courtesy of Neurosurgery. Dr. Lumba-Brown is the former Associate Vice Chair of the Department of Emergency Medicine.

Dr. Lumba-Brown is an international expert on traumatic brain injury and has led many large clinical care guidelines, as well as successful federally and non-federally funded research. She is a two-times appointee to the Board of Scientific Counselors for the Centers for Disease Control's (CDC) National Center for Injury Prevention and Control, a federal advisory committee. She currently is an appointed NIH workgroup member advising common data elements in traumatic brain injury. She was an appointee to the former Pac-12 Brain Trauma Task Force, guiding research and policy in athletes with head injury. Dr. Lumba-Brown held elected leadership positions in the Society for Academic Emergency Medicine (SAEM) and the American Academy of Pediatrics, Section on Emergency Medicine. Internationally, she oversees head injury policy, advising the Ontario Neurotrauma Foundation and co-leading world experts developing new guidelines on penetrating traumatic brain injury.

As former Director of the Emergency Medicine Clinical Research Unit, Dr. Lumba-Brown oversaw all departmental prospective human subjects research in emergency settings, including internal and external research partners. She has a formal focus on research innovation and partnership development that leverages the bioscience and biotech hubs of the University and region.

Dr. Lumba-Brown co-directed the Stanford Brain Performance Center for 7 years, leading in advancing the neuroscience of development, injury, and aging through prevention, novel biomarker discovery and other diagnostics, and treatments.

Dr. Lumba-Brown's work has been highlighted by Stanford Magazine, NPR, the New York Times, the Washington Post, Scientific American, as well as other national outlets.

Dr. Lumba-Brown is also a leader formally trained in compassion, mindfulness, and meditation. She is a graduate of the Stanford Center for Altruism and Compassion's year long applied compassion training. She is also a formally trained yoga and meditation instructor, currently ending an 2-year training under the leadership of Jack Kornfield and Tara Brach.

## **CLINICAL FOCUS**

- Pediatric Emergency Medicine

## **ACADEMIC APPOINTMENTS**

- Clinical Associate Professor, Emergency Medicine
- Clinical Associate Professor, Pediatrics
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

## **ADMINISTRATIVE APPOINTMENTS**

- Board of Scientific Counselors, Centers for Disease Control and Prevention, (2021- present)
- Clinical Research Unit Director (faculty), Stanford Emergency Medicine, (2022- present)
- Associate Vice Chair, Department of Emergency Medicine, Stanford University, (2021-2023)
- Co-Director, Stanford Brain Performance Center, (2018- present)
- Brain Trauma Task Force, Pac-12, (2021- present)
- Research Director, Stanford Brain Trauma Evidence-Based Consortium, (2017-2019)

## **HONORS AND AWARDS**

- Defense and Veterans Brain Injury Center's Coin honoree, US Department of Defense
- Health Equity Scholar, Academy of Communication in Healthcare
- SAEM Leadership Forum Scholarship, Society of Academic Emergency Medicine
- Recognition of Leadership Service Award recipient, American Academy of Pediatrics
- Triple Crown Award, St. Louis Children's Hospital, Children's Direct Emergency Medicine Services

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Appropriateness Criteria Committee Member, American College of Radiology (2023 - present)
- Elected Bylaws Member, Society for Academic Emergency Medicine (2022 - present)
- Editorial Board, Frontiers in Neurology: Neurotrauma (2020 - present)
- Mild TBI Definition Expert Consensus Group, American Congress of Rehabilitation Medicine (2019 - present)
- Editorial Board, Journal of the American College of Emergency Physicians (2019 - 2021)
- Chair, Committee for the Future, Section on Emergency Medicine, American Academy of Pediatrics (2015 - 2017)
- Workgroup to Improve the Clinical Care of Youth with Mild TBI, Centers for Disease Control and Injury Prevention (CDC) (2011 - present)

## **PROFESSIONAL EDUCATION**

- Board Certification, American Board of Pediatrics , Pediatric Emergency Medicine (2013)

- PEM Fellowship, University of California San Diego, Rady Children's Hospital , Pediatric Emergency Medicine (2012)
- Board Certification, American Board of Pediatrics , General Pediatrics (2009)
- Residency, New York Medical College, Maria Fareri Children's Hospital , Pediatrics (2007)
- Internship, New York Medical College, Maria Fareri Children's Hospital , Pediatrics (2006)
- Medical Doctor (MD), St. George's University Medical School , Medicine (2006)

## COMMUNITY AND INTERNATIONAL WORK

- Ontario Neurotrauma Foundation
- Stanford Sports Concussion Summit
- CDC Head Up Educational Materials

## PATENTS

- Vijay Lumba, Irwin Wunderman, Mearl Naponic, John Missanelli, Angela Lumba. "United States Patent US 20040082842 Lumba VK, Wunderman I, Naponic M, Missanelli J, Lumba AK. "System for Monitoring Fetal Status" Patent US 20040082842. April 2004.", Vijay Lumba, Apr 29, 2004

## LINKS

- Stanford Brain Performance Center: <http://med.stanford.edu/braincenter.html>
- New York Times: <https://www.nytimes.com/2018/09/17/well/family/children-concussions-brain-injuries-cdc-guidelines.html>
- National Public Radio (NPR): <https://www.npr.org/sections/health-shots/2018/12/03/672002830/kids-with-concussions-can-phase-in-exercise-screen-time-sooner-than-before>
- NPR News: <http://radio.wosu.org/post/wellness-wednesday-food-safety-kids-head-injuries-personality-types#stream/0>
- Stanford Sports Concussion Summit: [https://www.nbcbayarea.com/on-air/as-seen-on/Steve-Young--Attends-Concussion-Summit-at-Stanford\\_Bay-Area-509172472.html](https://www.nbcbayarea.com/on-air/as-seen-on/Steve-Young--Attends-Concussion-Summit-at-Stanford_Bay-Area-509172472.html)
- Concussion Subtypes: <https://stanfordmag.org/contents/the-5-types-of-concussions>

## Research & Scholarship

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### RESEARCH INTERESTS

- Brain and Learning Sciences

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Lumba-Brown is a specialty-trained, board-certified pediatric emergency medicine physician working clinically in the Stanford Emergency Department and co-directing the Stanford Brain Performance Center.

Her research focuses on traumatic brain injury and brain performance. Dr. Lumba-Brown's previous scholarly work include: a prospective, double-blinded, randomized controlled trial evaluating therapeutic intervention in acute pediatric concussion (Peds Em Care 2014); complicated mild TBI risk score development (Pediatrics and others 2017); and a large systematic review and CDC guideline publication (JAMA Peds and others 2018); concussion subtype classification (Neurosurgery 2019 and others). Her current areas of active research include investigations of diagnosis, management, and therapeutic intervention in traumatic brain injury, subtype classification of concussion, and the pre-hospital management of mild-severe TBI. She also studies brain performance via sensorimotor and sensory-cognitive synchronization to address attentional impairments.

### CLINICAL TRIALS

- Hypertonic Saline as Therapy for Pediatric Concussion, Not Recruiting

## Publications

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### PUBLICATIONS

- **Treatment Algorithms From the Brain Trauma Foundation Guidelines for the Management of Penetrating Traumatic Brain Injury, Second Edition.** *Neurosurgery*  
Bell, R. S., Lumba-Brown, A., Wright, D. W., Stein, D. M., Mangat, H. S., Aarabi, B., Adelson, P. D., Armonda, R. A., Benjamin, J., Boone, D., Davis, S., Dengler, B., Ecklund, et al  
2026; 98 (3S): S165-S182
- **Brain Trauma Foundation Guidelines for the Management of Penetrating Traumatic Brain Injury, Second Edition.** *Neurosurgery*  
Bell, R. S., Selph, S., Ghajar, J., Aarabi, B., Lumba-Brown, A., Mangat, H. S., Wright, D. W., Dengler, B., Stein, D. M., Pannell, D., Ecklund, J., Shackelford, S., Pappas, et al  
2026; 98 (3S): S6-S164
- **ACR Appropriateness Criteria® Major Blunt Trauma: Update 2025.** *Journal of the American College of Radiology : JACR*  
Lee, J. T., Camacho, M. A., Diercks, D. B., Kalva, S. P., Khan Suheb, M. Z., Khosa, F., Lumba-Brown, A., Mandell, S., Ptak, T., Sliker, C. W., Donnelly, E. F.  
2026
- **Traumatic brain injury (TBI) triage tool for low-risk patients: standardizing TBI care at a Level 1 trauma center.** *Trauma surgery & acute care open*  
Villarreal, J. A., Anderson, M., Gallegos, K., Harris, O., Hirsch, K., Lumba-Brown, A., Ravi, S., Seifert, K., Spain, D., Staudenmayer, K., Threlkeld, Z., Forrester, J. D.  
2025; 10 (4): e001892
- **Long-term test and retest reliability of clinical vergence testing.** *Ophthalmic & physiological optics : the journal of the British College of Ophthalmic Opticians (Optometrists)*  
Scheiman, M., Raghuram, A., Master, C., Robich, M. L., Toole, A., Shelton, E. R., Srinivasan, G., Marusic, S., Meiyeppen, S., Jordan, L. A., Roberts, T. L., EPICC Study Group, Roberts, T. L., et al  
2025
- **Using Machine Learning to Discover Traumatic Brain Injury Patient Phenotypes: National Concussion Surveillance System Pilot**  
Waltzman, D., Daugherty, J., Peterson, A., Lumba-Brown, A.  
LIPPINCOTT WILLIAMS & WILKINS.2024: E268-E269
- **Anxiety and Mood Disruption in Collegiate Athletes Acutely Following Mild Traumatic Brain Injury.** *Diagnostics (Basel, Switzerland)*  
Zhang, R., Martyna, M., Cornwell, J., Teramoto, M., Selfridge, M., Brown, A., Ghajar, J., Lumba-Brown, A.  
2024; 14 (12)
- **Using machine learning to discover traumatic brain injury patient phenotypes: national concussion surveillance system Pilot.** *Brain injury*  
Waltzman, D., Daugherty, J., Peterson, A., Lumba-Brown, A.  
2024: 1-9
- **Acute Eye-Tracking Changes Correlated With Vestibular Symptom Provocation Following Mild Traumatic Brain Injury.** *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*  
Uyeno, C., Zhang, R., Cornwell, J., Teramoto, M., Boo, M., Lumba-Brown, A.  
2024
- **The American Congress of Rehabilitation Medicine Diagnostic Criteria for Mild Traumatic Brain Injury.** *Archives of physical medicine and rehabilitation*  
Silverberg, N. D., Iverson, G. L., ACRM Brain Injury Special Interest Group Mild TBI Task Force and the ACRM Mild TBI Definition Expert Consensus Group, A. B., Cogan, A., Dams-O'Connor, K., Delmonico, R., Graf, M. J., Iaccarino, M. A., Kajankova, M., Kamins, J., McCulloch, K. L., McKinney, G., Nagele, et al  
2023
- **Prehospital Guidelines for the Management of Traumatic Brain Injury - 3rd Edition.** *Prehospital emergency care*  
Lulla, A., Lumba-Brown, A., Totten, A. M., Maher, P. J., Badjatia, N., Bell, R., Donayri, C. T., Fallat, M. E., Hawryluk, G. W., Goldberg, S. A., Hennes, H. M., Ignell, S. P., Ghajar, et al  
2023: 1-32

- **ACEP-SAEM Response to the National Institute of Health (NIH) proposal to simplify the review framework for research project grant applications.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*  
Knack, S. K., Kim, H., Paxton, J., Garg, N., Brown, A. L., Levy, P., Puskarich, M., Silbergleit, R., D'Onofrio, G., Adeoye, O., Kang, C., Diercks, D., Neumar, et al  
2023
- **Neuroimaging for mild traumatic brain injury in children: cross-sectional study using national claims data.** *Pediatric radiology*  
Waltzman, D., Miller, G. F., Patel, N., Sarmiento, K., Breiding, M., Lumba-Brown, A.  
2023
- **Multicentre evaluation of anxiety and mood among collegiate student athletes with concussion.** *BMJ open sport & exercise medicine*  
Lumba-Brown, A., Teramoto, M., Zhang, R., Aukerman, D. F., Bohr, A. D., Harmon, K., Petron, D. J., Romano, R., Poddar, S. K., Ghajar, J.  
2023; 9 (1): e001446
- **Firearm-Related Traumatic Brain Injury Homicides in the United States, 2000-2019.** *Neurosurgery*  
Waltzman, D., Sarmiento, K., Daugherty, J., Lumba-Brown, A., Klevens, J., Miller, G. F.  
2023
- **Journal update monthly top five.** *Emergency medicine journal : EMJ*  
Saxena, M., Altamirano, J., Rose, C., Bennett, C., Govindarajan, P., Lumba-Brown, A., Hirst, R.  
2022; 39 (7): 561-562
- **Rationale and Methods for Updated Guidelines for the Management of Penetrating Traumatic Brain Injury.** *Neurotrauma reports*  
Hawryluk, G. W., Selph, S., Lumba-Brown, A., Totten, A. M., Ghajar, J., Aarabi, B., Ecklund, J., Shackelford, S., Adams, B., Adelson, D., Armonda, R. A., Benjamin, J., Boone, et al  
2022; 3 (1): 240-247
- **Rationale and Methods for Updated Guidelines for the Management of Penetrating Traumatic Brain Injury** *NEUROTRAUMA REPORTS*  
Hawryluk, G. W. J., Selph, S., Lumba-Brown, A., Totten, A. M., Ghajar, J., Aarabi, B., Ecklund, J., Shackelford, S., Adams, B., Adelson, D., Armonda, R. A., Benjamin, J., Boone, et al  
2022; 3 (1): 240-247
- **Risk of Concussion After a Targeting Foul in Collegiate American Football.** *Orthopaedic journal of sports medicine*  
Aukerman, D. F., Bohr, A. D., Poddar, S. K., Romano, R., Petron, D. J., Ghajar, J., Giza, C. C., Lumba-Brown, A., McQueen, M. B., Harmon, K. G.  
2022; 10 (2): 23259671221074656
- **A Review of Implementation Concepts and Strategies Surrounding Traumatic Brain Injury Clinical Care Guidelines.** *Journal of neurotrauma*  
Lumba-Brown, A., Prager, E. M., Harmon, N., McCrea, M., Bell, M. J., Ghajar, J., Pyne, S., Cifu, D.  
2021
- **Sex Differences in Common Measures of Concussion in College Athletes.** *The Journal of head trauma rehabilitation*  
Teramoto, M., Grover, E. B., Cornwell, J., Zhang, R., Boo, M., Ghajar, J., Lumba-Brown, A.  
2021
- **The Other Side.** *Emergency medicine journal : EMJ*  
Lumba-Brown, A.  
2021
- **External Lumbar Drainage following Traumatic Intracranial Hypertension: A Systematic Review and Meta-Analysis.** *Neurosurgery*  
Badhiwala, J., Lumba-Brown, A., Hawryluk, G. W., Ghajar, J.  
2021
- **Phenotyping the Spectrum of Traumatic Brain Injury: A Review and Pathway to Standardization.** *Journal of neurotrauma*  
Pugh, M. J., Kennedy, E., Prager, E. M., Humpherys, J., Dams-O'Connor, K., Hack, D., McCafferty, M. K., Wolfe, J., Yaffe, K. C., McCrea, M., Ferguson, A. R., Lancashire, L., Ghajar, et al  
2021
- **CDC Guideline on Mild Traumatic Brain Injury in Children: Important Practice Takeaways for Sports Medicine Providers** *CLINICAL JOURNAL OF SPORT MEDICINE*  
Sarmiento, K., Waltzman, D., Lumba-Brown, A., Yeates, K. O., Putukian, M., Herring, S.

2020; 30 (6): 612–15

- **Mentoring Pediatric Victims of Interpersonal Violence Reduces Recidivism** *JOURNAL OF INTERPERSONAL VIOLENCE*  
Lumba-Brown, A., Batek, M., Choi, P., Keller, M., Kennedy, R.  
2020; 35 (21-22): 4262–75
- **Smooth Pursuit Eye-Movement Abnormalities Associated With Cervical Spine Whiplash: A Scientific Review and Case Report.** *Cureus*  
Boo, M., Matheson, G., Lumba-Brown, A.  
2020; 12 (8): e9872
- **Smooth Pursuit Eye-Movement Abnormalities Associated With Cervical Spine Whiplash: A Scientific Review and Case Report** *CUREUS*  
Boo, M., Matheson, G., Lumba-Brown, A.  
2020; 12 (8)
- **Efficacy of levetiracetam, fosphenytoin, and valproate for established status epilepticus by age group (ESETT): a double-blind, responsive-adaptive, randomised controlled trial.** *Lancet (London, England)*  
Chamberlain, J. M., Kapur, J., Shinnar, S., Elm, J., Holsti, M., Babcock, L., Rogers, A., Barsan, W., Cloyd, J., Lowenstein, D., Bleck, T. P., Conwit, R., Meinzer, et al  
2020; 395 (10231): 1217-1224
- **Emergency department treatment of asthma in children: A review** *JACEP Open*  
Lee, M. O., Sivasankar, S., Pokrajac, N., Smith, C., Lumba-Brown, A.  
2020
- **Guidelines for the Management of Severe Traumatic Brain Injury: 2020 Update of the Decompressive Craniectomy Recommendations.** *Neurosurgery*  
Hawryluk, G. W., Rubiano, A. M., Totten, A. M., O'Reilly, C. n., Ullman, J. S., Bratton, S. L., Chesnut, R. n., Harris, O. A., Kisson, N. n., Shutter, L. n., Tasker, R. C., Vavilala, M. S., Wilberger, et al  
2020
- **Post-concussion symptom burden in children following motor vehicle collisions.** *Journal of the American College of Emergency Physicians open*  
Lumba-Brown, A. n., Tang, K. n., Yeates, K. O., Zemek, R. n.  
2020; 1 (5): 938–46
- **Sex-Related Differences in Neurosensory Alterations Following Blunt Head Injury.** *Frontiers in neurology*  
Lumba-Brown, A. n., Niknam, K. n., Cornwell, J. n., Meyer, C. n., Ghajar, J. n.  
2020; 11: 1051
- **Emergency department implementation of abbreviated magnetic resonance imaging for pediatric traumatic brain injury.** *Journal of the American College of Emergency Physicians open*  
Lumba-Brown, A. n., Lee, M. O., Brown, I. n., Cornwell, J. n., Dannenberg, B. n., Fang, A. n., Ghazi-Askar, M. n., Grant, G. n., Imler, D. n., Khanna, K. n., Lowe, J. n., Wang, E. n., Wintermark, et al  
2020; 1 (5): 994–99
- **Emergency Department Implementation of the Brain Trauma Foundation's Pediatric Severe Brain Injury Guideline Recommendations.** *Pediatric emergency care*  
Lumba-Brown, A., Totten, A., Kochanek, P. M.  
2019
- **Randomized Trial of Three Anticonvulsant Medications for Status Epilepticus.** *The New England journal of medicine*  
Kapur, J., Elm, J., Chamberlain, J. M., Barsan, W., Cloyd, J., Lowenstein, D., Shinnar, S., Conwit, R., Meinzer, C., Cock, H., Fountain, N., Connor, J. T., Silbergleit, et al  
2019; 381 (22): 2103-2113
- **Practice Variation in the Diagnosis of Aneurysmal Subarachnoid Hemorrhage: A Survey of US and Canadian Emergency Medicine Physicians** *NEUROCRITICAL CARE*  
Kumar, A., Niknam, K., Lumba-Brown, A., Woodruff, M., Bledsoe, J. R., Kohn, M. A., Perry, J. J., Goyindarajan, P.  
2019; 31 (2): 321–28
- **Concussion Guidelines Step 2: Evidence for Subtype Classification.** *Neurosurgery*  
Lumba-Brown, A., Teramoto, M., Bloom, O. J., Brody, D., Chesnutt, J., Clugston, J. R., Collins, M., Gioia, G., Kontos, A., Lal, A., Sills, A., Ghajar, J.

2019

- **Reliable sideline ocular-motor assessment following exercise in healthy student athletes.** *Journal of science and medicine in sport*  
Sundaram, V., Ding, V. Y., Desai, M., Lumba-Brown, A., Little, J.  
2019
- **Strengthening the Evidence Base: Recommendations for Future Research Identified Through the Development of CDC's Pediatric Mild TBI Guideline** *JOURNAL OF HEAD TRAUMA REHABILITATION*  
Suskauer, S. J., Yeates, K., Sarmiento, K., Benzel, E. C., Breiding, M. J., Broomand, C., Haarbauer-Krupa, J., Turner, M., Weissman, B., Lumba-Brown, A.  
2019; 34 (4): 215–23
- **Practice Patterns in Pharmacological and Non-Pharmacological Therapies for Children with Mild Traumatic Brain Injury: A Survey of 15 Canadian and United States Centers** *JOURNAL OF NEUROTRAUMA*  
Mannix, R., Zemek, R., Yeates, K., Arbogast, K., Atabaki, S., Badawy, M., Beauchamp, M. H., Beer, D., Bin, S., Burstein, B., Craig, W., Corwin, D., Doan, et al  
2019
- **Pediatric hypertonic saline use in emergency departments** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*  
Niknam, K., Mistry, R., Lumba-Brown, A.  
2019; 37 (5): 981–83
- **Practice Variation in the Diagnosis of Aneurysmal Subarachnoid Hemorrhage: A Survey of US and Canadian Emergency Medicine Physicians.** *Neurocritical care*  
Kumar, A., Niknam, K., Lumba-Brown, A., Woodruff, M., Bledsoe, J. R., Kohn, M. A., Perry, J. J., Govindarajan, P.  
2019
- **North American survey on the post-neuroimaging management of children with mild head injuries** *JOURNAL OF NEUROSURGERY-PEDIATRICS*  
Greenberg, J. K., Jeffe, D. B., Carpenter, C. R., Yan, Y., Pineda, J. A., Lumba-Brown, A., Keller, M. S., Berger, D., Bollo, R. J., Ravindra, V. M., Naftel, R. P., Dewan, M. C., Shah, et al  
2019; 23 (2): 227–35
- **Practice Variation in the Management of Aneurysmal Subarachnoid Hemorrhage-A Survey of US and Canadian Emergency Medicine Physicians**  
Kumar, A., Niknam, K., Lumba-Brown, A., Bledsoe, J., Woodruff, M., Kohn, M., Perry, J., Govindarajan, P.  
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Strengthening the Evidence Base: Recommendations for Future Research Identified Through the Development of CDC's Pediatric Mild TBI Guideline.** *The Journal of head trauma rehabilitation*  
Suskauer, S. J., Yeates, K. O., Sarmiento, K., Benzel, E. C., Breiding, M. J., Broomand, C., Haarbauer-Krupa, J., Turner, M., Weissman, B., Lumba-Brown, A.  
2019
- **Practice Patterns in Pharmacologic and Non-pharmacologic Therapies for Children with Mild Traumatic Brain Injury: A survey of 15 Canadian and United States Centers.** *Journal of neurotrauma*  
Mannix, R. n., Zemek, R. n., Yeates, K. O., Arbogast, K. B., Atabaki, S. n., Badawy, M. n., Beauchamp, M. H., Beer, D. n., Bin, S. n., Burstein, B. n., Craig, W. n., Corwin, D. n., Doan, et al  
2019
- **Improving the Care of Young Patients with Mild Traumatic Brain Injury: CDC's Evidence-Based Pediatric Mild TBI Guideline** *LIFESTYLE MEDICINE, 3RD EDITION*  
Sarmiento, K., Lumba-Brown, A., Breiding, M. J., Gordon, W., Paulk, D., Vitale, K., Sleet, D. A.  
edited by Rippe, J. M.  
2019: 1319-1326
- **Representation of concussion subtypes in common postconcussion symptom-rating scales.** *Concussion (London, England)*  
Lumba-Brown, A. n., Ghajar, J. n., Cornwell, J. n., Bloom, O. J., Chesnutt, J. n., Clugston, J. R., Kolluri, R. n., Leddy, J. J., Teramoto, M. n., Gioia, G. n.  
2019; 4 (3): CNC65
- **Concussion Subtype Identification With the Rivermead Post-concussion Symptoms Questionnaire.** *Frontiers in neurology*

- Maruta, J., Lumba-Brown, A., Ghajar, J.  
2018; 9: 1034
- **Concussion Subtype Identification With the Rivermead Post-concussion Symptoms Questionnaire** *FRONTIERS IN NEUROLOGY*  
Maruta, J., Lumba-Brown, A., Ghajar, J.  
2018; 9
  - **CDC Guideline on Mild Traumatic Brain Injury in Children: Important Practice Takeaways for Sports Medicine Providers.** *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*  
Sarmiento, K., Waltzman, D., Lumba-Brown, A., Yeates, K. O., Putukian, M., Herring, S.  
2018
  - **Centers for Disease Control and Prevention Guideline on the Diagnosis and Management of Mild Traumatic Brain Injury Among Children** *JAMA PEDIATRICS*  
Lumba-Brown, A., Yeates, K., Sarmiento, K., Breiding, M. J., Haegerich, T. M., Gioia, G. A., Turner, M., Benzel, E. C., Suskauer, S. J., Giza, C. C., Joseph, M., Broomand, C., Weissman, et al  
2018; 172 (11)
  - **Development of the CIDSS2 Score for Children with Mild Head Trauma without Intracranial Injury** *JOURNAL OF NEUROTRAUMA*  
Greenberg, J. K., Yan, Y., Carpenter, C. R., Lumba-Brown, A., Keller, M. S., Pineda, J. A., Brownson, R. C., Limbrick, D. D.  
2018; 35 (22): 2699–2707
  - **Emergency Department Implementation of the Centers for Disease Control and Prevention Pediatric Mild Traumatic Brain Injury Guideline Recommendations** *ANNALS OF EMERGENCY MEDICINE*  
Lumba-Brown, A., Wright, D. W., Sarmiento, K., Houry, D.  
2018; 72 (5): 581–85
  - **Diagnosis and Management of Mild Traumatic Brain Injury in Children A Systematic Review** *JAMA PEDIATRICS*  
Lumba-Brown, A., Yeates, K., Sarmiento, K., Breiding, M. J., Haegerich, T. M., Gioia, G. A., Turner, M., Benzel, E. C., Suskauer, S. J., Giza, C. C., Joseph, M., Broomand, C., Weissman, et al  
2018; 172 (11)
  - **Pediatric hypertonic saline use in emergency departments.** *The American journal of emergency medicine*  
Niknam, K., Mistry, R., Lumba-Brown, A.  
2018
  - **Centers for Disease Control and Prevention Guideline on the Diagnosis and Management of Mild Traumatic Brain Injury Among Children.** *JAMA pediatrics*  
Lumba-Brown, A., Yeates, K. O., Sarmiento, K., Breiding, M. J., Haegerich, T. M., Gioia, G. A., Turner, M., Benzel, E. C., Suskauer, S. J., Giza, C. C., Joseph, M., Broomand, C., Weissman, et al  
2018: e182853
  - **Diagnosis and Management of Mild Traumatic Brain Injury in Children: A Systematic Review.** *JAMA pediatrics*  
Lumba-Brown, A., Yeates, K. O., Sarmiento, K., Breiding, M. J., Haegerich, T. M., Gioia, G. A., Turner, M., Benzel, E. C., Suskauer, S. J., Giza, C. C., Joseph, M., Broomand, C., Weissman, et al  
2018: e182847
  - **Mentoring Pediatric Victims of Interpersonal Violence Reduces Recidivism.** *Journal of interpersonal violence*  
Lumba-Brown, A., Batek, M., Choi, P., Keller, M., Kennedy, R.  
2017: 886260517705662
  - **Development and Internal Validation of a Clinical Risk Score for Treating Children With Mild Head Trauma and Intracranial Injury.** *JAMA pediatrics*  
Greenberg, J. K., Yan, Y., Carpenter, C. R., Lumba-Brown, A., Keller, M. S., Pineda, J. A., Brownson, R. C., Limbrick, D. D.  
2017
  - **Service Delivery in the Healthcare and Educational Systems for Children Following Traumatic Brain Injury: Gaps in Care.** *The Journal of head trauma rehabilitation*  
Haarbauer-Krupa, J., Ciccio, A., Dodd, J., Ettel, D., Kurowski, B., Lumba-Brown, A., Suskauer, S.  
2017

- **183 A Clinical Risk Score for Managing Children With Glasgow Coma Scale 13 to 15 Head Injuries and Intracranial Injury.** *Neurosurgery*  
Greenberg, J. K., Yan, Y., Carpenter, C., Lumba-Brown, A., Keller, M. S., Pineda, J. A., Brownson, R. C., Limbrick, D. D.  
2016; 63: 172-173
- **PEMNetwork Barriers and Enablers to Collaboration and Multimedia Education in the Digital Age** *PEDIATRIC EMERGENCY CARE*  
Lumba-Brown, A., Tat, S., Auerbach, M. A., Kessler, D. O., Alletag, M., Grover, P., Schnadower, D., Macias, C. G., Chang, T. P.  
2016; 32 (8): 565-569
- **Essentials of PEM Fellowship Part 2: The Profession in Entrustable Professional Activities** *PEDIATRIC EMERGENCY CARE*  
Hsu, D., Nypaver, M., Fein, D. M., McAneney, C., Santen, S., Nagler, J., Zuckerbraun, N., Roskind, C. G., Reynolds, S., Zaveri, P., Stankovic, C., House, J. B., Langhan, et al  
2016; 32 (6): 410-418
- **Firearm injuries in the pediatric population: A tale of one city** *JOURNAL OF TRAUMA AND ACUTE CARE SURGERY*  
Choi, P. M., Hong, C., Bansal, S., Lumba-Brown, A., Fitzpatrick, C. M., Keller, M. S.  
2016; 80 (1): 64-69
- **Emergency Neurological Life Support: Traumatic Brain Injury** *NEUROCRITICAL CARE*  
Garvin, R., Venkatasubramanian, C., Lumba-Brown, A., Miller, C. M.  
2015; 23: S143-S154
- **Emergency Neurological Life Support: Traumatic Brain Injury.** *Neurocritical care*  
Garvin, R., Venkatasubramanian, C., Lumba-Brown, A., Miller, C. M.  
2015; 23 Suppl 2: S143-54
- **Evidence-Based Assessment of Severe Pediatric Traumatic Brain Injury and Emergent Neurocritical Care** *SEMINARS IN PEDIATRIC NEUROLOGY*  
Lumba-Brown, A., Pineda, J.  
2014; 21 (4): 275-283
- **Hypertonic saline as a therapy for pediatric concussive pain: a randomized controlled trial of symptom treatment in the emergency department.** *Pediatric emergency care*  
Lumba-Brown, A., Harley, J., Lucio, S., Vaida, F., Hilfiker, M.  
2014; 30 (3): 139-145

## PRESENTATIONS

- NFL Concussion Panel - 2018 Advances in Neuroscience 9th Bay Area Symposium
- Subtypes of Concussion: DoD Provider Training - National Department of Defense Provider Training
- Research Keynote: Classification of Concussion - TBI Symposium, OHSU Brain Institute
- Mild TBI Guidelines for the CDC National Health Providers - Centers for Disease Control and Injury Prevention
- Management of Status Epilepticus in Children - 2016 ACEP Advanced Pediatric Emergency Medicine Assembly (3/1/2016)
- The Clinical Management of Pediatric Seizure - Washington University Pediatric Emergency Medicine Symposium (9/1/2016)
- Morsels and More: Update on Online Educational Tools and the PEMNetwork - Pediatric Emergency Medicine Fellows' Conference (3/1/2015)
- Concussion: Making the Diagnosis and Making the Discharge Plan - Pediatric Academic Societies Annual Conference (5/1/2014)
- Establishing Evidence for the Subtypes of Concussion - Brain Injury Summit
- The Prevalence of Concussion Subtypes - Military Health Science Research Symposium (8/22/2018)
- Brain Freeze: Fact Versus Fiction in Concussion Return to Play - 2016 ACEP Advanced Pediatric Emergency Medicine Assembly (3/1/2016)
- Evidence for Concussion Subtypes - 2018 Advances in Neurosciences 9th Bay Area Symposium
- Head Injury Guideline Materials for Children - State of Hawaii Department of Health (2/14/2020)
- The ED Management of Head Injury in Children - Dell Children's Hospital (3/4/2020)
- Hypertonic Saline and Strategies for the Management of Traumatic Brain Injury in Children - Grand Rounds, Dell Children's Hospital (3/4/2020)

- Update on Care of Pediatric Emergencies, Trauma, Resuscitation - National Conference Webinar (April 24, 2020)