



Zachary David Threlkeld

- Clinical Associate Professor, Neurology & Neurological Sciences
- Clinical Associate Professor (By courtesy), Neurosurgery

CLINICAL OFFICES

- **Stanford Neurocritical Care Program**

780 Welch Rd Ste 350

Stanford, CA 94304

Tel (650) 723-4448

Fax (650) 723-4431

- **Dept of Neurology**

453 Quarry Rd

Palo Alto, CA 94304

Tel (650) 723-4448

Fax (650) 723-4431

Bio

BIO

Dr. Threlkeld cares for critically ill patients with acute neurologic illness, including traumatic brain injury, stroke, intracerebral hemorrhage, and epilepsy. He completed his residency training in neurology at the University of California, San Francisco, and joined the Stanford Neurocritical Care program after completing fellowship training in neurocritical care at Massachusetts General Hospital and Brigham and Women's Hospital in Boston. He has a particular clinical and research interest in traumatic brain injury. His research uses advanced imaging modalities like functional magnetic resonance imaging (fMRI) to better understand disorders of consciousness.

CLINICAL FOCUS

- Neurology
- Traumatic Brain Injury
- Consciousness
- Functional MRI

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Neurology & Neurological Sciences
- Clinical Associate Professor (By courtesy), Neurosurgery

ADMINISTRATIVE APPOINTMENTS

- Medical Director, Neuroscience ICU, Stanford Health Care, (2021- present)
- Program Director, Neurosurgical Neurocritical Care Fellowship, (2021- present)
- Associate Program Director, Neurocritical Care Fellowship, Stanford Department of Neurology, (2019-2021)

PROFESSIONAL EDUCATION

- Board Certification: Neurocritical Care, United Council for Neurologic Subspecialties (2019)
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2016)
- Fellowship, Neurocritical Care, Harvard Medical School, Massachusetts General Hospital, and Brigham & Women's Hospital (2018)
- Residency, Dept of Neurology, University of California, San Francisco (2016)
- Internship, Dept of Internal Medicine, University of California, San Francisco (2013)
- MD, University of Kentucky College of Medicine (2012)

Publications

PUBLICATIONS

- **Reemergence of the language network during recovery from severe traumatic brain injury: A pilot functional MRI study.** *Brain injury*
Coffey, B. J., Threlkeld, Z. D., Foulkes, A. S., Bodien, Y. G., Edlow, B. L.
2021; 1-11
- **Diffuse Axonal Injury Grade on Early MRI is Associated with Worse Outcome in Children with Moderate-Severe Traumatic Brain Injury.** *Neurocritical care*
Janas, A. M., Qin, F., Hamilton, S., Jiang, B., Baier, N., Wintermark, M., Threlkeld, Z., Lee, S.
2021
- **Neuro-Oncologic Emergencies.** *Neurologic clinics*
Threlkeld, Z. D., Scott, B. J.
2021; 39 (2): 545–63
- **Cryptogenic new-onset refractory status epilepticus (NORSE) following blood transfusion in a patient with severe anemia.** *Epileptic disorders : international epilepsy journal with videotape*
Wu, C. K., Culbertson, C. J., Von Stein, E. L., Walia, S., Krishnamohan, P., Threlkeld, Z. D.
2021
- **Feasibility and acceptability of virtually coaching residents on communication skills: a pilot study.** *BMC medical education*
Sasnal, M., Miller-Kuhlmann, R., Merrell, S. B., Beres, S., Kipp, L., Lee, S., Threlkeld, Z., Nassar, A. K., Gold, C. A.
2021; 21 (1): 513
- **Personalized Connectome Mapping to Guide Targeted Therapy and Promote Recovery of Consciousness in the Intensive Care Unit.** *Neurocritical care*
Edlow, B. L., Barra, M. E., Zhou, D. W., Foulkes, A. S., Snider, S. B., Threlkeld, Z. D., Chakravarty, S., Kirsch, J. E., Chan, S., Meisler, S. L., Bleck, T. P., Fins, J. J., Giacino, et al
2020
- **Early magnetic resonance imaging as a predictor of outcome in pediatric traumatic brain injury**
Janas, A., Threlkeld, Z., Wintermark, M., Lee, S.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Cryptogenic new-onset refractory status epilepticus (NORSE) following blood transfusion in a patient with severe anemia**
Wu, C., Von Stein, E., Culbertson, C., Walia, S., Krishnamohan, P., Threlkeld, Z.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Will We Ever Make Headway in Severe Traumatic Brain Injury Treatment Trials?** *JAMA neurology*
Murray, N. M., Threlkeld, Z. D., Hirsch, K. G.
2020
- **Early Head Computed Tomography Abnormalities Associated with Elevated Intracranial Pressure in Severe Traumatic Brain Injury.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
Murray, N. M., Wolman, D. N., Mlynash, M. n., Threlkeld, Z. D., Christensen, S. n., Heit, J. J., Harris, O. A., Hirsch, K. G.
2020

- **Intact Brain Network Function in an Unresponsive Patient with COVID-19.** *Annals of neurology*
Fischer, D. n., Threlkeld, Z. D., Bodien, Y. G., Kirsch, J. E., Huang, S. Y., Schaefer, P. W., Rapalino, O. n., Hochberg, L. R., Rosen, B. R., Edlow, B. L.
2020
- **A state-space model for dynamic functional connectivity.** *Conference record. Asilomar Conference on Signals, Systems & Computers*
Chakravarty, S., Threlkeld, Z. D., Bodien, Y. G., Edlow, B. L., Brown, E. N.
2019; 2019: 240-244
- **Default mode network dynamics in covert consciousness** *CORTEX*
Bodien, Y. G., Threlkeld, Z. D., Edlow, B. L.
2019; 119: 571-74
- **Functional Reorganization of the Language Network During Recovery from Severe Traumatic Brain Injury: Longitudinal fMRI Study**
Coffey, B., Threlkeld, Z., Bodien, Y., Edlow, B.
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Non-electrographic Seizures Due to Subdural Hematoma: A Case Series and Review of the Literature.** *Neurocritical care*
Driver, J., DiRisio, A. C., Mitchell, H., Threlkeld, Z. D., Gormley, W. B.
2019; 30 (1): 16-21
- **Default mode network dynamics in covert consciousness.** *Cortex; a journal devoted to the study of the nervous system and behavior*
Bodien, Y. G., Threlkeld, Z. D., Edlow, B. L.
2019
- **A state-space model for dynamic functional connectivity**
Chakravarty, S., Threlkeld, Z. D., Bodien, Y. G., Edlow, B. L., Brown, E. N., Matthews, M. B.
IEEE.2019: 240-44
- **Recovery of Functional Independence After Traumatic Transtentorial Herniation With Duret Hemorrhages.** *Frontiers in neurology*
Edlow, B. L., Threlkeld, Z. D., Fehnel, K. P., Bodien, Y. G.
2019; 10: 1077
- **Functional networks reemerge during recovery of consciousness after acute severe traumatic brain injury.** *Cortex; a journal devoted to the study of the nervous system and behavior*
Threlkeld, Z. D., Bodien, Y. G., Rosenthal, E. S., Giacino, J. T., Nieto-Castanon, A., Wu, O., Whitfield-Gabrieli, S., Edlow, B. L.
2018
- **Collaborative Interventions Reduce Time-to-Thrombolysis for Acute Ischemic Stroke in a Public Safety Net Hospital** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
Threlkeld, Z. D., Kozak, B., McCoy, D., Cole, S., Martin, C., Singh, V.
2017; 26 (7): 1500-1505
- **Continuous Qualitative Electroencephalography as a Noninvasive Neuromonitor.** *The Neurohospitalist*
Threlkeld, Z. D., Kottapally, M., Aysenne, A., Ko, N.
2016; 6 (4): 157-60
- **Heat Shock Transcription Factor 1 Is Activated as a Consequence of Lymphocyte Activation and Regulates a Major Proteostasis Network in T Cells Critical for Cell Division During Stress** *JOURNAL OF IMMUNOLOGY*
Gandhapudi, S. K., Murapa, P., Threlkeld, Z. D., Ward, M., Sarge, K. D., Snow, C., Woodward, J. G.
2013; 191 (8): 4068-79
- **Isolated Histoplasma capsulatum Meningoencephalitis in an Immunocompetent Child** *JOURNAL OF CHILD NEUROLOGY*
Threlkeld, Z. D., Broughton, R., Khan, G. Q., Berger, J. R.
2012; 27 (4): 532-35
- **Task Deactivation Reductions and Atrophy within Parietal Default Mode Regions are Overlapping but Only Weakly Correlated in Mild Cognitive Impairment** *JOURNAL OF ALZHEIMERS DISEASE*
Threlkeld, Z. D., Jicha, G. A., Smith, C. D., Gold, B. T.
2011; 27 (2): 415-27