



## Marike Zwienenberg, M.D.

### Philosophy of Care

Disorders affecting the brain and spine are often life-altering for patients and their families. When faced with disease affecting the central nervous system, selecting the optimal treatment strategy for a child can be difficult and complex. As a neurosurgeon I strive to educate and empower parents to make these challenging healthcare decisions so that they can best fulfill the needs of their child and family.

### Clinical Interests

Dr. Zwienenberg is fellowship trained and board certified in general Neurological Surgery and Pediatric Neurological Surgery. She provides medical and surgical care to patients with brain and spinal cord tumors, hydrocephalus, craniofacial disorders, epilepsy, spinal dysraphism (including fetal surgery), vascular anomalies and traumatic brain injury. She has expertise in minimally invasive endoscopic surgery for hydrocephalus and craniosynostosis.

### Research/Academic Interests

Dr. Zwienenberg's research interests include studying the effects of injury to the developing brain and the long-term impact on neurological functioning and developmental outcome. Her clinical research interests include the development of clinical guidelines and decision instruments to optimize the care of children with traumatic brain injury.

**Title** Health Sciences Associate Clinical Professor

**Specialty** Pediatric Neurological Surgery

**Department** [Neurological Surgery](#)

**Division** Neurological Surgery

**Clinic** UC Davis Medical Group, Sacramento - Midtown

**Center/Program Affiliation** [UC Davis Children's Hospital](#)

Trauma Program

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**Languages** Dutch



## Marike Zwienenberg, M.D.

- Education** M.D., Erasmus University Rotterdam, Rotterdam, The Netherlands 1997
- Internships** General Surgery, UC Davis Medical Center, Sacramento CA 2000-2001
- Residency** Neurological Surgery, UC Davis Medical Center, Sacramento CA 2001-2006
- Fellowships** Pediatric Neurological Surgery, St. Jude Childrens Research Hospital/Le Bonheur Childrens Medical Center, Memphis TN 2006-2007
- Board Certifications** American Board of Neurological Surgery  
American Board of Pediatrics - Pediatric Neurological Surgery
- Professional Memberships** American Society of Pediatric Neurosurgeons
- Honors and Awards** UC Davis Deans Team Award for Clinical Excellence: Craniopagus separation surgery, 2021  
Sacramento Magazine Top Doctor Neurological Surgery: 2016, 2018, 2019, 2020, 2021  
Sacramento Magazine Top Doctor Pediatric Neurological Surgery: 2018, 2019, 2020, 2021  
UC Davis Deans Team Award for Clinical Excellence: Fetal Surgery team, 2017  
Outstanding leadership award, UC Davis Department of Neurological Surgery, 2016  
Americas Best Doctors, 2016  
Deans Team Award for Excellence in Clinical Care, UC Davis School of Medicine, 2014
- Select Recent Publications** Ondek K, Brevnova O, Jimenez-Ornelas C, Vergara A, Zwienenberg M, Gurkoff G. A new model of repeat mTBI in adolescent rats. *Exp Neurol.* 2020 Sep;331:113360. doi:10.1016/j.expneurol.2020.113360. Epub 2020 May 20. PMID:32442552.
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Nishijima DK, Yang Z, Urbich M, Holmes JF, Zwienenberg-Lee M, Melnikow J, Kuppermann N. Cost-effectiveness of the PECARN rules in children with minor head trauma. *Ann Emerg Med*. 2015 Jan;65(1):72-80.e6. doi:10.1016/j.annemergmed.2014.08.019. Epub 2014 Nov 12. PMID:25443992.

Sarkar K, Keachie K, Nguyen U, Muizelaar JP, Zwienenberg-Lee M, Shahlaie K. Computed tomography characteristics in pediatric versus adult traumatic brain injury. *J Neurosurg Pediatr*. 2014 Mar;13(3):307-14. doi:10.3171/2013.12.PEDS13223. Epub 2014 Jan 10. PMID:24410128

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