Stanford

Elizabeth Wilson Mayne

Assistant Professor of Neurology and Neurological Sciences (Pediatric Neurology) and, by courtesy, of Pediatrics

CLINICAL OFFICE (PRIMARY)

- **Child Neurology**

  730 Welch Rd Ste 206

  Palo Alto, CA 94304

  Tel (650) 723-0993 **Fax** (650) 721-6350

Bio

CLINICAL FOCUS

- Neurology with Special Qualifications in Child Neurology
- Pediatric Neurocritical Care
- Pediatric Stroke
- Neurologic injuries and outcomes in children with congenital cardiac disease

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Pediatric Neurology
- Assistant Professor - University Medical Line (By courtesy), Pediatrics
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Scientific Committee, International Pediatric Stroke Organization (2021 - present)

PROFESSIONAL EDUCATION

- Board Certification: Neurology with Special Qualifications in Child Neurology, American Board of Psychiatry and Neurology (2019)
- Board Certification: Neurocritical Care, American Board of Psychiatry and Neurology (2021)
- Internship: Stanford Health Care at Lucile Packard Children's Hospital (2016) CA
- Fellowship: Northwestern Medicine Pediatric Neurocritical Care Fellowship (2020) IL
- Residency: Stanford University Child Neurology Residency (2019) CA
- Medical Education: Harvard Medical School (2014) MA

Publications

PUBLICATIONS

- **Juvenile Mice Develop Infarct-Induced Neurodegeneration and Emerging Cognitive Decline in a Model of Pediatric Stroke.** *Stroke*
  Mayne, E. W., Vanden, K., Hefferon, M. E., Zera, K. A., Buckwalter, M. S.
  2026
- **Blockade of VCAM1 or VLA4 promotes normal cerebrovasculature and prevents cognitive decline late after stroke**
  Zera, K., Bradshaw, K., Zhu, L., Hahn, O., Foltz, A., Peterson, T., Yousef, H., Lee, D., Mayne, E., Wyss-Coray, T., Buckwalter, M.
  LIPPINCOTT WILLIAMS & WILKINS.2026
- **Stroke in children with congenital or acquired heart disease.** *Current opinion in pediatrics*
  Mayne, E. W.
  2025; 37 (6): 591-596
- **Blood Pressure Management and Postoperative Stroke Risk in Pediatric Moyamoya Disease.** *Pediatric neurology*
  Pal, R., Cheronis, C., Mayne, E., Steinberg, G. K., Lee, S.
  2025; 175: 19-26
- **Radiographic Severity of Neonatal Deep Medullary Venous Thrombosis Is Associated with Neurodevelopmental Impairment.** *The Journal of pediatrics*
  Pal, R., Barsh, G. R., Luo, I., Dahmoush, H., Lee, S., Mayne, E.
  2025: 114769
- **Acute Stroke Characteristics, Treatment and Outcomes in Children on Mechanical Circulatory Support**
  Cheronis, C., Mayne, E., Lee, S.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Use of a Stroke Alert Protocol and Outcomes at a Quaternary Children's Hospital.** *The Journal of pediatrics*
  Africk, B., Luo, I., Silverman, A., Teeyagura, P., Jackson, K., Gauna, J., Mayne, E., Lee, S.
  2024: 114364
- **Pediatric Stroke and Cardiac Disease: Challenges in Recognition and Management.** *Seminars in pediatric neurology*
  Mayne, E. W., Mailo, J. A., Pabst, L., Pulcine, E., Harrar, D. B., Waak, M., Rafay, M. F., Hassanein, S. M., Amlie-Lefond, C., Jordan, L. C.
  2022; 43: 100992
- **Evaluation of Seizure Risk in Infants After Cardiopulmonary Bypass in the Absence of Deep Hypothermic Cardiac Arrest.** *Neurocritical care*
  Levy, R. J., Mayne, E. W., Sandoval Karamian, A. G., Iqbal, M., Purington, N., Ryan, K. R., Wusthoff, C. J.
  2021
- **Diminished Blood Pressure Profiles in Children With Down Syndrome.** *Hypertension (Dallas, Tex. : 1979)*
  Santoro, J. D., Lee, S., Mlynash, M., Mayne, E. W., Rafii, M. S., Skotko, B. G.
  2020: HYPERTENSIONAHA11914416
- **Blood Pressure Elevation and Risk of Moyamoya Syndrome in Patients With Trisomy 21** *PEDIATRICS*
  Santoro, J. D., Lee, S., Mlynash, M., Thuy Nguyen, Lazzareschi, D. V., Kraler, L. D., Mayne, E. W., Steinberg, G. K.
  2018; 142 (4)
- **Blood Pressure Elevation and Risk of Moyamoya Syndrome in Patients With Trisomy 21.** *Pediatrics*
  Santoro, J. D., Lee, S., Mlynash, M., Nguyen, T., Lazzareschi, D. V., Kraler, L. D., Mayne, E. W., Steinberg, G. K.
  2018
- **Dopamine suppresses persistent network activity via D1-like dopamine receptors in rat medial entorhinal cortex** *EUROPEAN JOURNAL OF NEUROSCIENCE*
  Mayne, E. W., Craig, M. T., McBain, C. J., Paulsen, O.
  2013; 37 (8): 1242–47
- **Distinct roles of GABAB1a- and GABAB1b-containing GABAB receptors in spontaneous and evoked termination of persistent cortical activity.** *The Journal of physiology*

Craig, M. T., Mayne, E. W., Bettler, B., Paulsen, O., McBain, C. J.
2013; 591 (4): 835-43