

Charles Hugh Brown IV

Professor of Anesthesiology, Perioperative and Pain Medicine (Cardiac)

CLINICAL OFFICE (PRIMARY)

- **Anesthesia Department**

300 Pasteur Dr Rm H3580

MC 5640

Stanford, CA 94305

Tel (650) 723-5728 **Fax** (650) 725-8544

Bio

CLINICAL FOCUS

- Anesthesiology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine

PROFESSIONAL EDUCATION

- Board Certification: Advanced Perioperative Transesophageal Echocardiography, National Board of Echocardiography (2022)
- Board Certification: Anesthesiology, American Board of Anesthesiology (2011)
- Fellowship: Johns Hopkins Hospital Adult Cardiothoracic Anesthesiology Fellowship (2011) MD
- Residency: Johns Hopkins Anesthesiology Residency (2010) MD
- Residency: Johns Hopkins Dept of Emergency Medicine Residency Program (2007) MD
- Medical Education: Johns Hopkins University School of Medicine (2005) MD

Publications

PUBLICATIONS

- **Low cardiac index during periods of arterial hypotension and risk of acute kidney injury in cardiac surgery.** *British journal of anaesthesia*
Goeddel, L. A., Koffman, L., Zhou, X., Hernandez, M., Zhao, A., Pasrija, C., Saha, A. K., Muschelli, J., Parikh, C. R., Crainiceanu, C. M., Brown, C., Khanna, A. K., Faraday, et al
2026
- **Association Between ICD-Coded Delirium and Health Determinants in The Atherosclerosis Risk in Communities Study.** *Journal of the American Geriatrics Society*
Umoh, M. E., Garcia Morales, E. E., Zhang, W., Brown, C. H., Oh, E. S., Reed, N. S.
2026
- **Clinical implications and feasibility of cerebral autoregulation-based precision blood pressure monitoring in major noncardiac surgery: A protocol for AUTOREGULATE-NONCARDIAC, a multicentre prospective cohort study and peri-operative precision medicine platform.** *European journal of anaesthesiology and intensive care*
Wanner, P. M., Schindler, C., Beqiri, E., Smielewski, P., Hogue, C. W., Brown, C. H., Jeon, Y., Puelacher, C., Murgatroyd Wiles, A. J., Yurttas, T., Bürgi, J., Seeberger, E., Doyle, et al
2026; 5 (1): e0093

- **Early Relative Hypotension Below Noninvasive Cerebral Oximetry-Derived Optimal Blood Pressure Thresholds in Aneurysmal Subarachnoid Hemorrhage: A Pilot Study.** *Critical care medicine*
Shah, V. A., Humayun, M., Radzik, B., Healy, R., Palmisano, C., Anderson-White, M., Calvillo, E., Geocadin, R., Brown, C., Hogue, C., Ziai, W., Cho, S. M., Suarez, et al
2025
- **The Impact of Cognitive Impairment on Cardiovascular Disease.** *Journal of the American College of Cardiology*
Jamil, Y., Krishnaswami, A., Orkaby, A. R., Stimmel, M., Brown Iv, C. H., Mecca, A. P., Forman, D. E., Rich, M. W., Nanna, M. G., Damluji, A. A.
2025; 85 (25): 2472-2491
- **Mind the messenger: role of extracellular vesicle signalling in postoperative neurocognitive dysfunction.** *British journal of anaesthesia*
Das, S., Devinney, M. J., Berger, M., Brown, C. H.
2025
- **Continuous Monitoring of Cerebral Autoregulation in Adults Supported by Extracorporeal Membrane Oxygenation.** *Neurocritical care*
Zhang, L. Q., Chang, H., Kalra, A., Humayun, M., Rosenblatt, K. R., Shah, V. A., Geocadin, R. G., Brown, C. H., Kim, B. S., Whitman, G. J., Rivera-Lara, L., Cho, S. M.
2024
- **Continuous Monitoring of Cerebral Autoregulation in Adults Supported by Extracorporeal Membrane Oxygenation.** *Research square*
Zhang, L. Q., Chang, H., Kalra, A., Humayun, M., Rosenblatt, K. R., Shah, V. A., Geocadin, R. G., Brown, C. H., Kim, B. S., Whitman, G. J., Rivera-Lara, L., Cho, S. M.
2023
- **CEREBRAL OXIMETRY-DERIVED OPTIMAL BLOOD PRESSURE TARGETS IN ANEURYSMAL SUBARACHNOID HEMORRHAGE**
Shah, V., Humayun, M., Radzik, B., Palmisano, C., Anderson-White, M., Calvillo, E., Chang, H., Zhang, L., Hogue, C., Brown, C., Suarez, J., Geocadin, R., Cho, et al
LIPPINCOTT WILLIAMS & WILKINS.2023: 253