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With her clinical training and experience as a neurointensivist combined with a strong background in clinical research and genetic epidemiology methods, Dr. Ko has had a successful longitudinal clinical research program in subarachnoid hemorrhage (SAH) at the University of California, San Francisco (UCSF) for over a decade. She is board certified in Vascular Neurology and Neurocritical Care, with a Master's in Advanced Studies in Clinical Research from the UCSF Department of Epidemiology and Biostatistics. With funding support from the NIH, Howard Hughes Medical Institute, and the American Heart Association, Dr. Ko has been the PI for a longitudinal outcome study of SAH patients, a quantitative cerebral blood flow study in cerebral vasospasm, and an aneurysm genetics study. She has also served as a co-Investigator on numerous clinical trials, and most recently the NorCal Regional Coordinating Center of the NIH Stroke Trials Network. She is currently the study neurologist for the UCSF Brain Arteriovenous Malformation (bAVM) study and co-director of the UCSF Center of Excellence for Cerebral Cavernous Malformations (CCM). Our goal is to use rigorous clinical research methodologies to integrate physiologic, radiographic, genetic and biomarker information to improve our understanding of the pathophysiology of acute and chronic neurological injury in patients with complex vascular diseases of the brain. Understanding these mechanisms is crucial to refining our current risk assessment tools and to identifying better targets for intervention that will ultimately improve patient outcomes in the neurointensive care unit and beyond.

