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Dr. Chock is the Associate Chief of Clinical Research for the Division of Neonatal and Developmental Medicine at Stanford. She developed Stanford's neonatal near-infrared spectroscopy (NIRS) clinical monitoring program which began over 10 years ago. Her leadership of the US Neonatal NIRS Consortium has advanced the use of brain monitoring by promoting clinical and research initiatives with a focus on educational webinars and growth of a community of neonatologists interested in regional tissue oxygenation.

Dr. Chock has multiple publications related to neonatal neuromonitoring and hemodynamics and was NIH-funded to investigate NIRS monitoring in preterm anemic infants in a multicenter trial. Her additional interests include the continuum of care from the fetal to neonatal period and developing research goals for trainees as Associate Program Director for Stanford's Neonatal and Developmental Medicine fellowship program.