

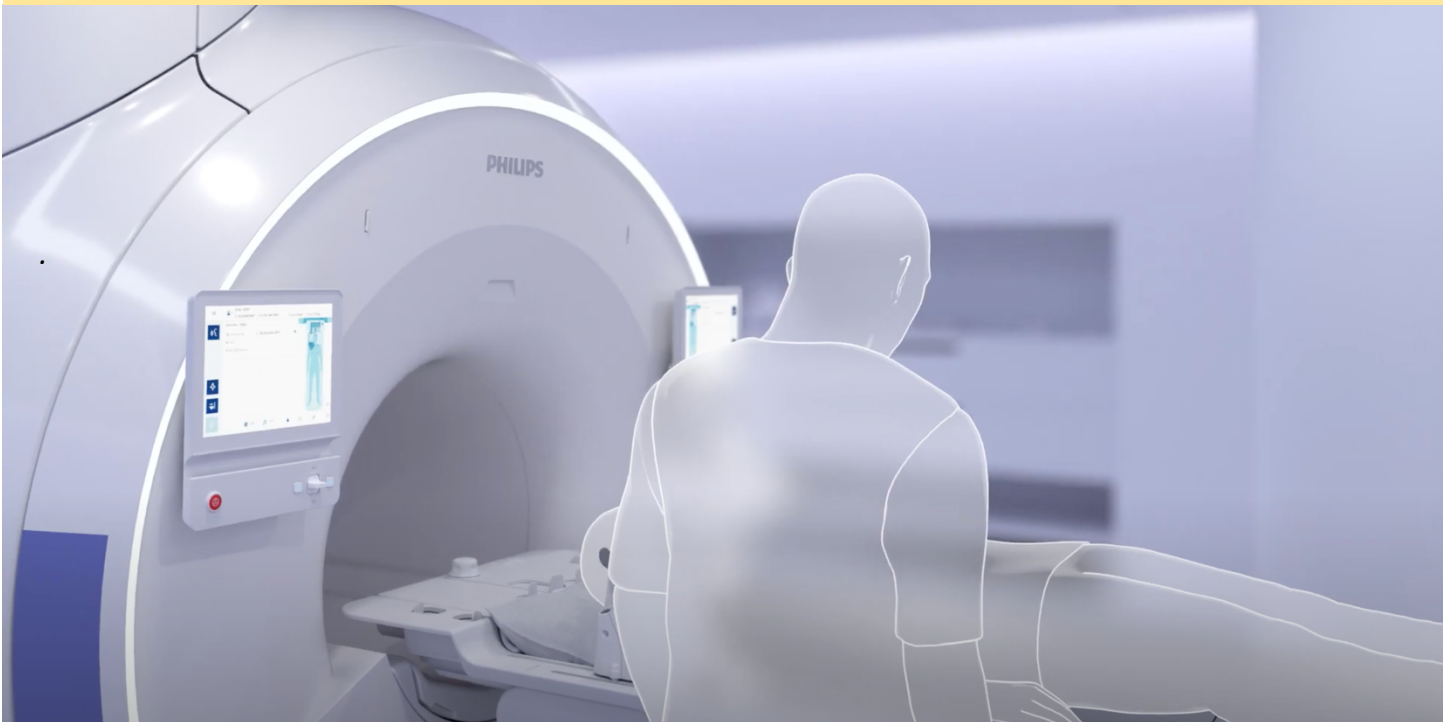
DIAGNOSTIC IMAGING SCIENCES CENTER

Imaging Researcher of the Month



Dr. Busola Oluwole

Hematology-Oncology Fellow, University of Washington, Fred Hutchinson Cancer Research Center



What is the primary scientific focus of your research?

The main focus of our research is to gain a deeper understanding of the development of cognitive dysfunction in patients with sickle cell disease in the absence of strokes or silent infarcts.

What is the relevance of your work to the public health?

Sickle cell disease is an inherited disorder that mainly affects people of African ancestry with about 100,000 people afflicted with the disease in the U.S. and millions globally. Neurovascular complications such as overt and silent strokes as well as neurocognitive dysfunction are common and unfortunate complications of the disease. Sadly, little is known about the pathophysiology of neurocognitive dysfunction outside of stroke. We aim to understand the etiology by assessing association with anemia and underlying functional abnormalities on imaging with the hope of identifying promising therapies for prevention of cognitive dysfunction.

How has DISC helped you achieve your scientific and public health goals?

DISC has helped us understand how to approach our study with the available, yet novel imaging modalities and protocols.