

NHMFL SEMINAR

Professor Daniel Kim

Northwestern University

Host

Dr Samuel C Grant

Title

Cardiac MRI of Patients with a Cardiac Implantable Electronic Device

Friday, March 1st, 2023

1st Floor – B101

15:00-16:00

Abstract

In medicine, physicians are frequently having to make clinical decisions based on the risk-to-benefit ratio. It is not easy to make this determination in the scenario of cardiac magnetic resonance imaging (MRI) of patients with a cardiac implantable electronic device (CIED). This presentation will provide a brief overview of the risk (and how to mitigate it) and how one may maximize benefit. This talk will cover current guidelines and strategies for suppressing image artifacts caused by CIEDs.

Bio

Dr. Daniel Kim, PhD, is the Associate Vice-Chair for Research in the Department of Radiology and the Knight Family Professor of Cardiac Imaging at Feinberg, Northwestern University. He has been a part of the Feinberg faculty since 2016 and currently holds a tenured professorship in Radiology, with courtesy appointments in the Biomedical and Electrical and Computer Engineering Departments. Dr. Kim is widely recognized for his groundbreaking research, which bridges the domains of engineering and medicine.

His research extends from technology development to translational science in cardiovascular MRI.

Through active collaboration with colleagues in radiology and cardiology, his work is dedicated to addressing unmet clinical needs by pioneering new MRI acquisition and image reconstruction methods, subsequently translating them to enhance the clinical management of heart disease. In terms of scholarly achievements, Dr. Kim has published over 80 peer-reviewed publications, and secured 13 awarded grants as a principal investigator from esteemed institutions such as the National Institutes of Health (NIH), the American Heart Association (AHA), and the Radiological Society of North America (RSNA). He is currently a board member and chair of the science committee for the Society of Cardiovascular Magnetic Resonance.