



COLLEGE OF MEDICINE TUCSON
Medical Imaging

Grand Rounds

Maximizing the Impact of Photon-Counting CT in MSK Radiology



- ▶ Wed. February 5
- ▶ 12 Noon – 1 pm
- ▶ COM-T 2117

Zoom Link:

<https://arizona.zoom.us/j/89046999463>

Text Attendance Code **49857** to (866) 327-3062

Francis Baffour, MD is an associate professor and diagnostic radiologist at Mayo Clinic in Rochester. Dr. Baffour practices as a diagnostic radiologist with expertise in advanced MRI and CT techniques for musculoskeletal imaging and emergency radiology. Dr. Baffour's clinical and research interests align with his goal of identifying novel applications for advanced imaging technologies and rapidly translating these discoveries to the clinical practice for patient care. As Associate Medical Director of the CT Clinical Innovation Center in the Department of Radiology, he supports the mission of facilitating high impact imaging innovations with direct impact on patient care such as radiation dose reduction techniques, new CT technologies, and quantitative assessment of disease activity. Dr. Baffour earned an M.D. from the Albert Einstein College of Medicine, NY and a B.A. in Biochemistry from Vassar College, NY.

Session Objectives:

- 1) Explore the benefits of photon-counting CT in routine clinical MSK imaging and its potential for driving innovation.
- 2) Examine the technological advancements of photon-counting CT that enhance operational efficiency in MSK practices but also present unique challenges.
- 3) Provide a framework for integrating photon-counting CT into an MSK clinical workflow.

Abstract:

Photon-Counting CT scanners represent a significant advancement in musculoskeletal radiology, offering a range of clinical and operational benefits. By leveraging lower radiation doses, these scanners ensure patient safety while providing superior image quality with higher spatial resolution. The ability to detect subtle findings, reduce metal artifacts, and perform advanced material decomposition enables more accurate diagnostics and opens doors to innovative applications like bone quality assessment. However, adopting PCD scanners is not without challenges. Implementing the technology requires expertise in protocol optimization and close collaboration with vendors. Integration into multivendor environments presents additional hurdles, including the need for training radiologists and technologists to adapt to new workflows. Despite these challenges, with proper planning and support, PCD scanners can revolutionize MSK radiology practices.

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