Cleveland Clinic

Diagnostic and Nuclear Medical Physics Residency Program
Resident Research Presentations

Last updated: 8/2023

- **Scilla K**, Alkhazzam S, Cheney C, Dave JK, Long Z, Marshall E, Tao A, Tsalafoutas I, Zhao A, Hulme K. Dependence of Reported Exposure Index Values on Vendor Algorithm: An Anthropomorphic Phantom Study. **RSNA** 2023 (Talk)

- Li X, **Doyle E**, Hoerner M, Long Z, Hulme K, Macdonald E, Marshall E, Quails N, Tao A, Zhao A. Kerma-area product and IEC exposure index in digital radiography: are system-reported values reliable for dose monitoring? **AAPM** 2023 (Interactive ePoster)

- Li X, **Doyle E**, Hulme K. Ongoing exposure index analysis in digital radiography: establishing a performance baseline, **AAPM** 2022 (Talk)

- **Topbas C**, Dong F. Assessing the Severity of Metal Artifacts and Detectability of Lesions in CT Metal Artifact Reduction Images, **AAPM** 2021 (Interactive ePoster)

- **Fong G**, K Wunderle. Distribution of Peak Skin Doses From Fluoroscopic Procedures Exceeding 5 Gy Reference Air Kerma, **AAPM** 2021 (Interactive ePoster)

- Paltani J, **Fong G**, K Wunderle. Fluoroscopic Imaging Data Analysis: A Practical Study to Guide Protocol Optimization and Operator Training, **AAPM** 2021 (Interactive ePoster)

- **Topbas C, Fong G**, Singh V, Hulme K, Li X. Using Exposure Index to Develop Thickness-Based Technique Chart for Cross-Table Lateral Hip Radiography, **AAPM** 2020 (Blue Ribbon ePoster)

- **Fong G**, Wunderle K, Assessing Digital Image Receptor Performance Using the Noise-Response Method: A Feasibility Study for Routine Quality Control, **AAPM** 2020 (Talk)

- **Fong G**, Wunderle K, Comparison of Patient Fluoroscopic Water-Equivalent Thicknesses to a Common Patient-Equivalent Phantom, **AAPM** 2019 (Poster)

- **Barreto B**, Hulme K, Image Quality Comparison between Enhanced Multiple Parameter Iterative Reconstruction (EMPIRE) and Filtered Back Projection in Digital Breast Tomosynthesis (DBT) using the American College of Radiography (ACR) Digital Mammography Phantom, **RSNA** 2019 (Alternate for Oral)

- **Barreto B**, Schoenhagen P, Dong F, Impact of Reconstruction Kernel and Iterative Reconstruction on Coronary Calcium Scores, **AAPM** 2018 (Poster)

- **Zhao A**, Hulme K, Evaluation of American College of Radiology (ACR) Mammography Accreditation Phantom Image Quality of a Grid-Less and Software-Based Scatter Correction Technology, **RSNA** 2018 (Oral)

- **Zhao A**, Wunderle K, Godley A, Review of Patients Undergoing Fluoroscopically-Guided Interventions and External Beam Radiation Therapy Within a Quaternary Care Medical Center, **AAPM** 2018 (Poster)

- **Zhao A**, Wunderle K, An Analytical Approach for Estimating Angular Change of a C-Arm Fluoroscope Necessary to Provide Discrete X-Ray Fields at the Plane of Patient Skin in Fluoroscopically Guided Interventions, **AAPM** 2017 (Oral)