



# X-Ray Multimeter Performance in Diagnostic Imaging Calibration Beams

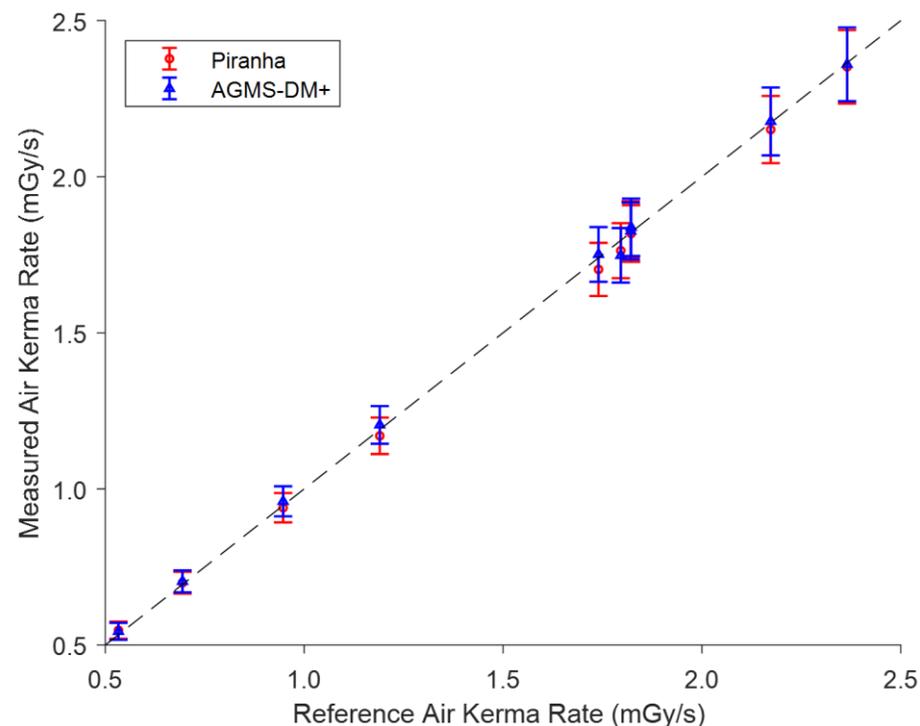
## Introduction

- X-ray multimeters (XMMs) are solid-state dosimeter systems that are used to measure tube potential, air kerma rate, half-value layer (HVL), and other beam quantities of diagnostic x-ray beams
- XMM performance was evaluated using x-ray calibration beams at the University of Wisconsin-Madison



## Results

- XMMs performed well for measurements of air kerma rate and HVL
- XMM measurements of tube potential were generally inaccurate
- Measurement results were consistent over time



## Future Work

- Evaluate XMM performance in other beams
  - Clinical mammography units
  - Tungsten-anode mammography calibration beams
- Continue long-term performance study