Dynamic beam filter positioning for low-dose CT

William Shyr, Andrew Mao Mentor: Dr. J. Web Stayman

GOAL

Develop a system to dynamically position the x-ray beam during acquisition based on the patient's position to overcome miscentering issues.

SIGNIFICANCE

Confer the benefits of low-dose CT acquisitions to the emergency room.

RESULTS

We observed more uniform noise distributions and significantly reduced dose variation within the phantom using our dynamic system.



