



## Background: optimizing CT dose in a large healthcare system

- Emory Healthcare is a large multi-institutional system with 26 scanners spread across 13 inpatient and outpatient locations.
- Over 150 subspecialty protocols are used across the system.
- Systematically optimizing protocols and standardizing them across a system with 3 scanner platforms is a major challenge.

























Slide 13

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- Median exam doses decreased from 8.77 mSv to 7.73 mSv, an 12% drop in an health system with over 100,000 CT examinations per year.
- Dose alerts decreased by 10% as well from 373 to 335.
- The percentage of alerts due to protocol deviation from protocol book dropped from 70% to 44%. Given the large number of protocols in the system (150+), focusing on one high-yield protocol a week may be helpful.



