
CBE ID

3633e

Title

Excessive Radiation Dose or Inadequate Image Quality for Diagnostic Computed Tomography (CT) in Adults (Clinician Level)

Endorsement Status

Endorsed

Is Under Review

No

Next Maintenance Cycle

Fall 2027

Previous Endorsement Cycle

Fall 2021

Initial Endorsement

Tue, 08/02/2022 - 00:00

Steward

Alara Imaging

1.0 New or Maintenance

Maintenance

1.1 Measure Structure

Single Measure

1.3 Electronic Clinical Quality Measure (eCQM)

Yes

1.6 Measure Description

This electronic clinical quality measure (eCQM) provides a standardized method for monitoring the performance of diagnostic CT to discourage unnecessarily high radiation doses, a risk factor for cancer, while preserving image quality. It is expressed as a percentage of eligible CT exams that are out-of-range based on having either excessive radiation dose or inadequate image quality, relative to evidence-based thresholds based on the clinical indication for the exam. All diagnostic CT exams of specified anatomic sites performed in inpatient, outpatient and ambulatory care settings are eligible.

1.7 Measure Type

Intermediate Outcome

1.8 Level of Analysis

Clinician: Group/Practice, Clinician: Individual

1.13 Data Dictionary

Not attached. I attest that all information will be provided where codes and/or value sets are needed (1.14a - 1.15c).

1.14 Numerator

Diagnostic CT exams that have a size-adjusted radiation dose value greater than the threshold specific to the CT category (reflecting the body region imaged and the radiation dose and image quality required for that exam given the reason for the exam), or a global noise value greater than a threshold specific to the CT Category.

1.15 Denominator

All diagnostic CT exams performed on adults (aged 18 years and older) during the measurement period of one year that have an assigned CT category, a size-adjusted radiation dose value, and a global noise value.

1.20 Types of Data Sources

Electronic Health Records

6.1.2 Current or Planned Use(s)

Payment Program, Professional Certification or Recognition Program, Quality Improvement with Benchmarking (external benchmarking to multiple organizations), Quality Improvement (Internal to the specific organization)

6.1.3 Current Use(s)

Not in use

Exclusions

Denominator exclusions are CT exams that simultaneously include multiple body regions outside of four commonly encountered multiple region groupings (specified as LOINC code 96914-7, CT Dose and Image Quality Category, Full Body). Denominator exclusions are also CT exams with missing patient age, missing size-adjusted radiation dose, or missing global noise. These are technical exclusions ("missing data") from the initial population. Technical exclusions will be flagged, corrected whenever possible, and tracked at the level of the accountable entity.

Measure Disclaimer

The Measure is not a clinical guideline, does not establish a standard of medical care, and has not been tested for all potential applications.

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Planned Use

Payment Program, Professional Certification or Recognition Program, Quality Improvement (Internal to the specific organization), Quality Improvement with Benchmarking (external benchmarking to multiple organizations)

Risk Adjustment

Statistical risk model

Target Population

Adults (Age >= 18)

The measure developer is different from the measure steward

No

Steward Organization

Alara Imaging

Steward POC email

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