Computed Tomography Colonography Measures
Revised November 30, 2020

Process Measures

1. Rate of Adequacy of Diagnostic CTC Examination
2. Rate of Adequacy of Screening CTC Examination

Outcomes Measures

1. Rate of Colonic Perforation
2. True Positive Rate
3. Potentially Important Extracolonic Findings

Process Measure: Rate of Technical Adequacy of Screening* CTC Examination

Data Elements	Clinical Performance Measure			
Type of study Technique met ACR guidelines CTDIvol Prone image acquisition Supine image acquisition Decubitus image acquisition	**Numerator**: Number of exams where "Technique met ACR guidelines" = "Yes", or all conditions in one of the rows below are true:			
	CTDIvol <=	Prone image acquired =	Supine image acquired =	# of decubitus images acquired =
	10	Yes	Yes	0
	15	Yes	Yes	1
	20	Yes	Yes	2
	5	Yes	No	0
	10	Yes	No	1
	15	Yes	No	2
	10	No	Yes	1
	15	No	Yes	2
	5	No	Yes	0
	5	No	No	1
	10	No	No	2

Denominator: All screening* CTC exams where at least one of these conditions is true:
1. "Technique met ACR guidelines" = "No"
2. "Technique met ACR guidelines" = "Yes"
3. None of these fields are null:
   - i. CTDIvol
   - ii. Supine image acquisition
   - iii. Prone image acquisition
   - iv. Decubitus acquisition

Numerator and Denominator Exclusion: None

Measure: Percentage of screening exams with adequate data acquisition/technique for CTC

* A screening exam refers to an exam in which the patient is asymptomatic.

Process Measure: Rate of Technical Adequacy of Diagnostic* CTC Examination

Data Elements	Clinical Performance Measure
Type of study Technique met ACR guidelines	**Numerator:** All diagnostic* CTC exams where "Technique met ACR guidelines" = "Yes. **Denominator:** All diagnostic* CTC exams where "Technique met ACR guidelines" = "Yes" or "No". **Numerator and Denominator Exclusion:** None **Measure:** Percentage of diagnostic exams with adequate data acquisition/technique for CTC

* A diagnostic exam refers to any exam other than a screening exam

Outcome Measure: Rate of Colonic Perforation

Data Elements	Clinical Performance Measure
Colonic perforation Referred from incomplete colonoscopy	**Numerator**: Number of exams where "Colonic perforation" = "Yes" **Denominato**r: All exams, whether screening or diagnostic **Numerator and Denominator Exclusion:** Exams where "Referred from incomplete colonoscopy" = "Yes" **Measure:** Percentage of exams with colonic perforation

Outcome Measure: True Positive Rate

Data Elements	Clinical Performance Measure
At least one polyp Confirmed at optical colonoscopy Not seen at optical colonoscopy	**Numerator**: Number of exams where "At least one polyp => 10 mm" = "Yes" and "Confirmed at optical colonoscopy" = "Yes" **Denominator:** Number of exams where "At least one polyp => 10 mm" = "Yes" and either "Confirmed at optical colonoscopy" or "Not seen at optical colonoscopy" = "Yes" **Numerator and Denominator Exclusion:** None **Measure:** Percentage of exams with confirming colonoscopies for a ≥10mm polyp detected by CTC

Outcome Measure: Potentially Important Extracolonic Findings

Data Elements	Clinical Performance Measure
E-score	**Numerator**: All CTC exams where "E-score" = 4 **Denominator:** All CTC exams, either screening or diagnostic **Numerator and Denominator Exclusion:** None **Measure:** Percentage of exams resulting in potentially important extracolonic findings