



The prediction of inadequate colon capsule cleansing: a cohort selection guided by CC-CLEAR

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In order to **optimize adequate cleansing rate** in colon capsule is key to **identify risk factors for a sub-optimal colon preparation.**

CC-CLEAR (Colon Capsule CLEansing Assessment and Report) is the new cleansing scale to apply in colon capsule.

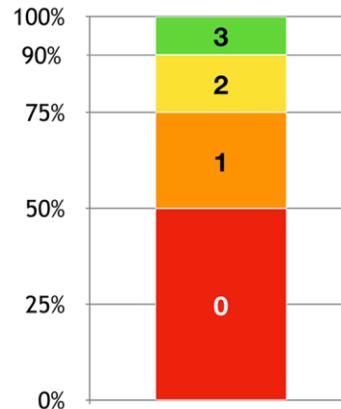
CC-CLEAR

Colon Capsule CLEansing Assessment and Report

1. Three segments:
Right, Transverse, Left colon



2. Points assigned to each segment, according to *percentage of visualised mucosa*



3. Final cleansing score is the sum of each segment individual scores

Excellent	8-9
Good	6-7
Inadequate	0-5 points

Minimal scoring 0
Maximum scoring 9

If any segment scores less than 2 points, the overall classification shall be considered inadequate, independently of final overall scoring.

Interobserver agreement	Kendall's coefficient	p-value
CC-CLEAR	0.911	<0.01
Leighton-Rex scale	0.772	<0.05
Adapted Leighton-Rex scale	0.806	<0.01



To define **predictive factors for inadequate bowel preparation** in colon capsule, according to **CC-CLEAR**.

R  **C** **E**
2 **0** **2** **1**

METHODS

Retrospective cohort study

Single centre

OUTCOME: Inadequate cleansing (CC-CLEAR criteria)

POPULATION: Cohort of consecutive patients submitted to colon capsule, from 2015-2020

Statistical analysis

Univariate analysis: tested the association between covariables and the outcome

Multivariable logistic binary regression: Tested statistically significant variables in a model

Area under curve ROC: tested the performance of the model

<i>Inclusion Criteria</i>	<i>Exclusion Criteria</i>
All adult patients (≥ 18 years old) submitted to colon capsule regarding the indication.	Pregnancy Known or suspected gastrointestinal obstruction

RICE

RESULTS

2021

133 consecutive colon capsules

72%

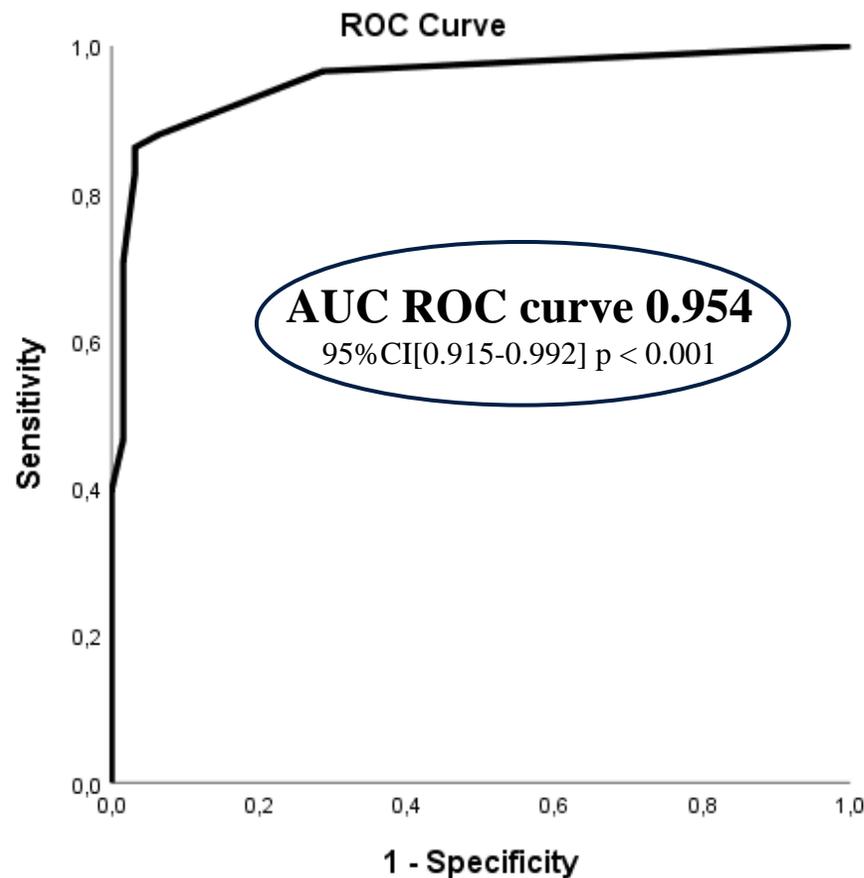
Mean age 65 years

Main indication: Incomplete colonoscopy (94%)

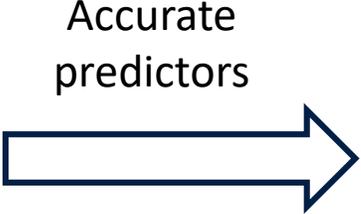
Colon capsule cleansing (CC-CLEAR): Good or Excellent (53%)

Multivariate logistic regression model (including statistically significant variables)

Table with 3 columns: Variable, OR (95% CI), P value. Rows include Previous inadequate cleansing, Chronic laxative, Chronic antidepressant, and Impaired mobility.



Previous inadequate cleansing
Use of chronic laxative
Use chronic antidepressant
Impaired mobility



Inadequate colon capsule cleansing (CC-CLEAR)

Model



Excellent discriminative power

Categorization of patients at major risk for inadequate colon capsule cleansing



Optimization of the colon cleansing protocol