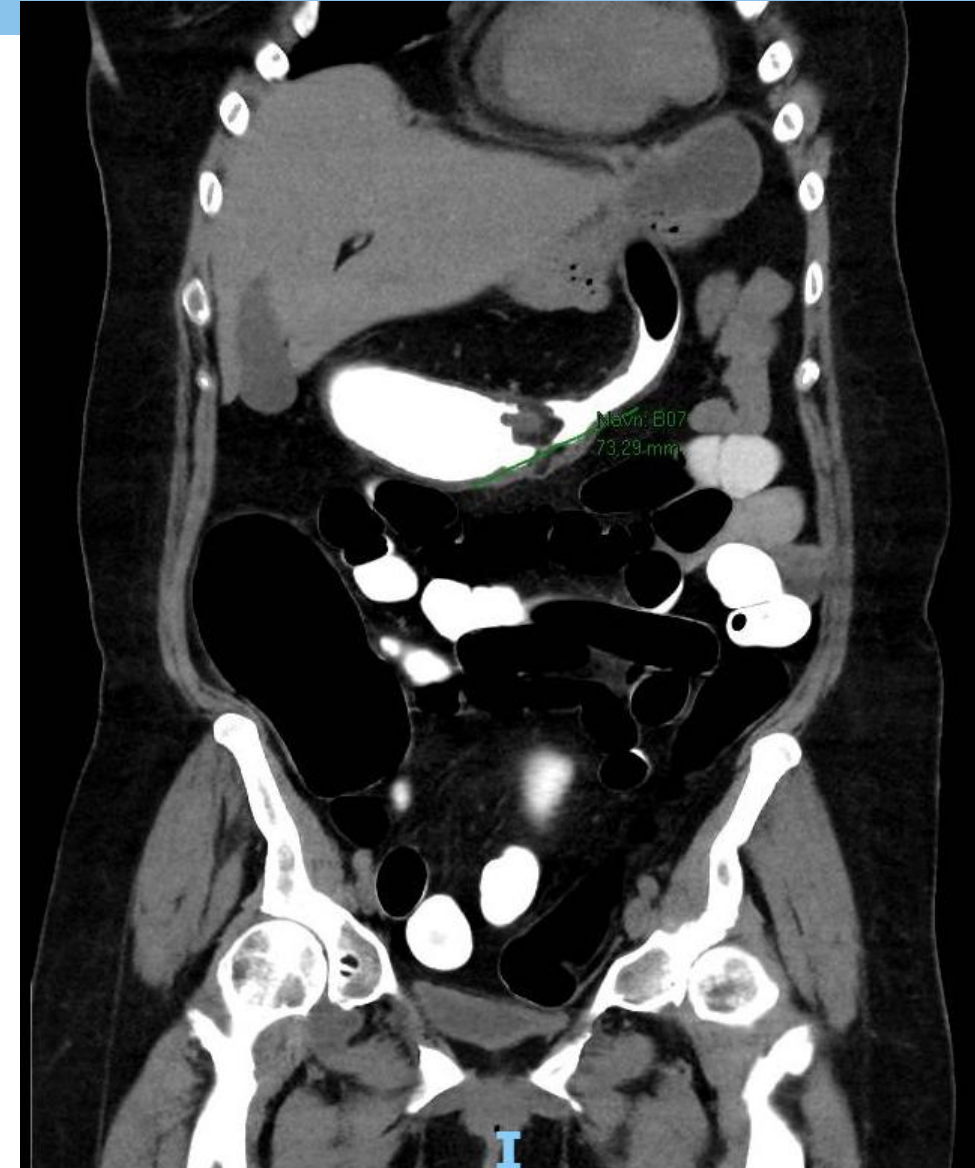


Automated CO₂ insufflation and Image Quality in CT Colonography: Results from a Retrospective Study.

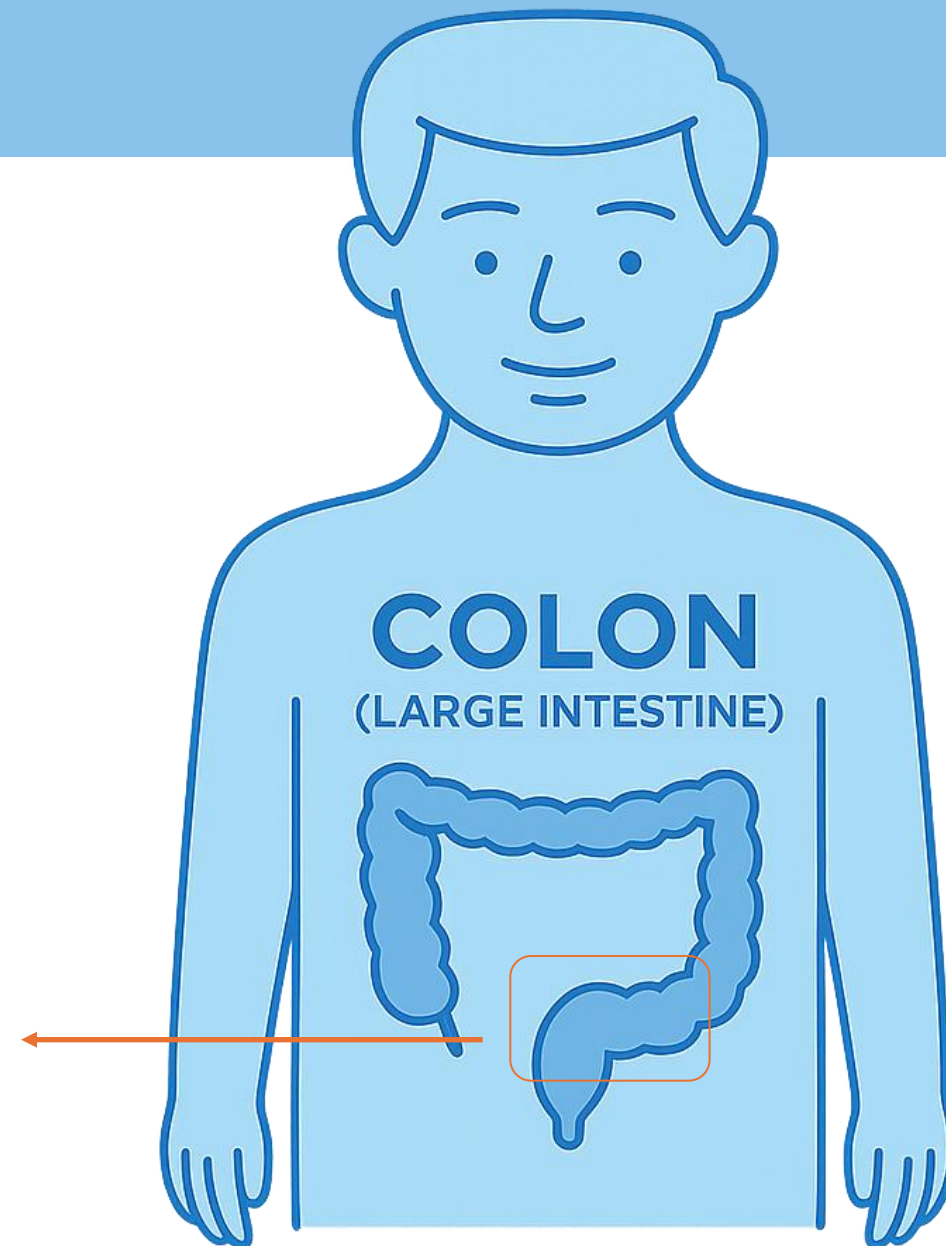
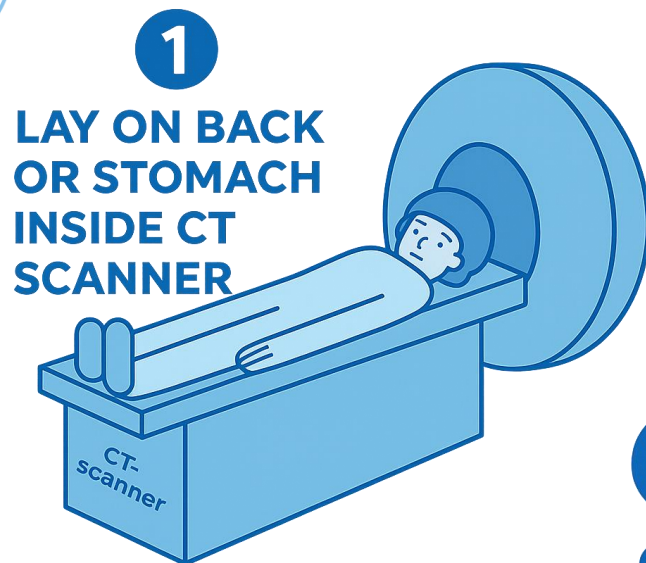
Josefine Magdalene Jensen,

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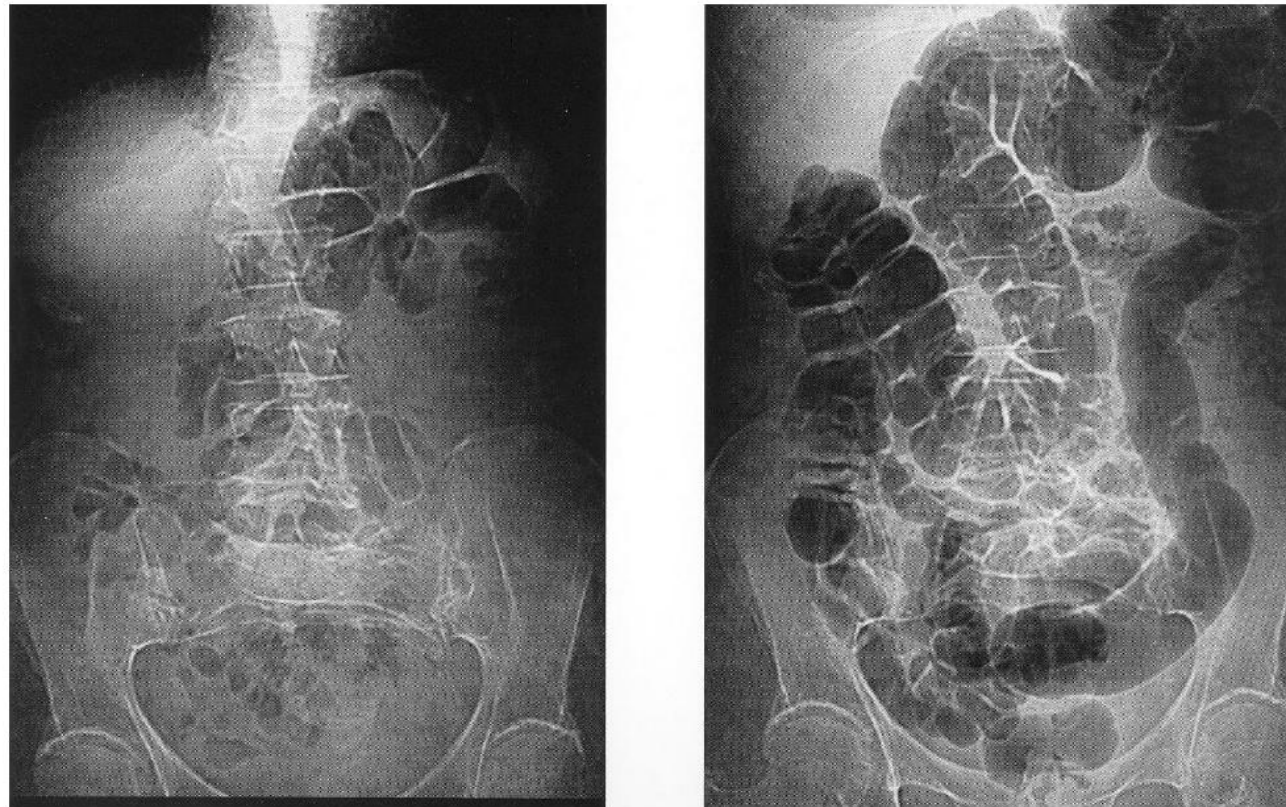


Background



Aim

The aim was to evaluate the volume of automated CO₂ insufflation, radiation dose, and diagnostic image quality in CT colonography.



Retrospective study

Single-center study

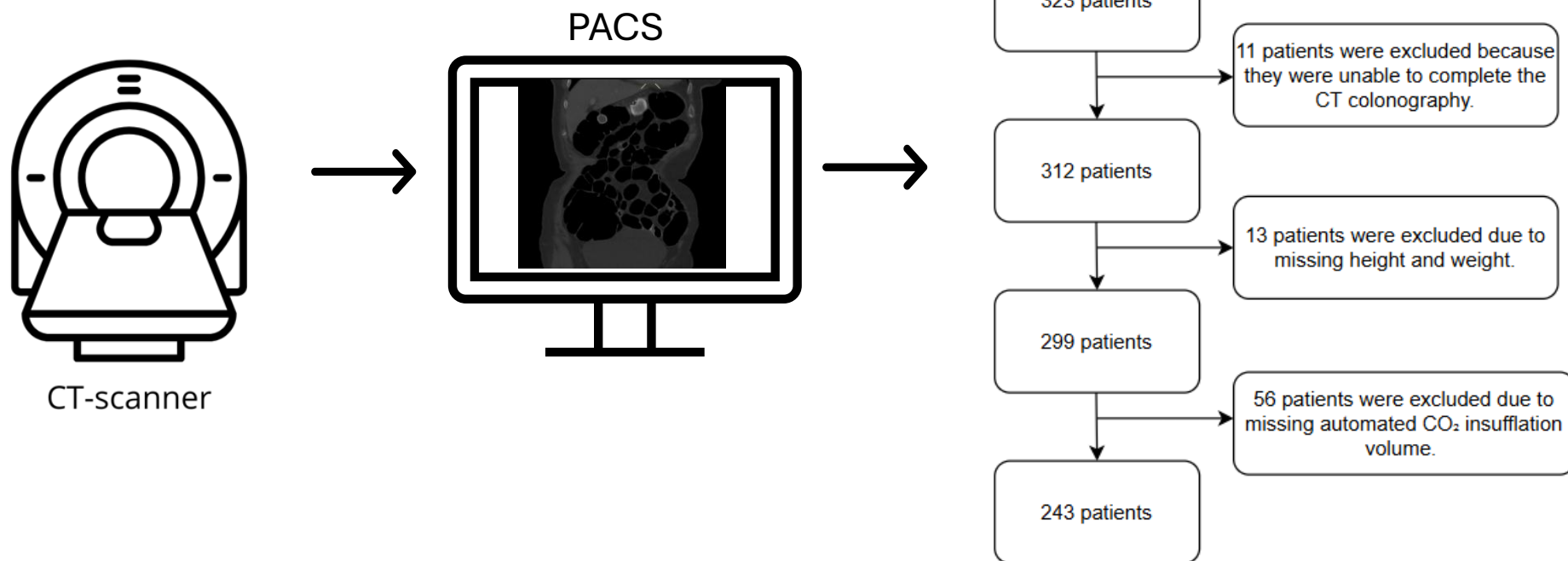
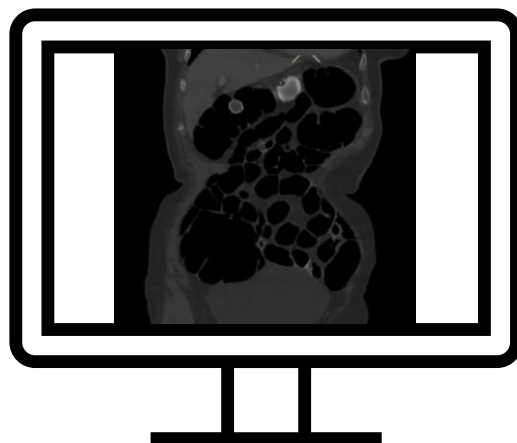


Image quality assessment

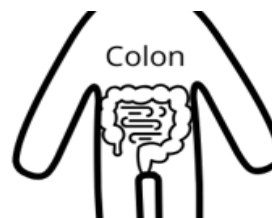
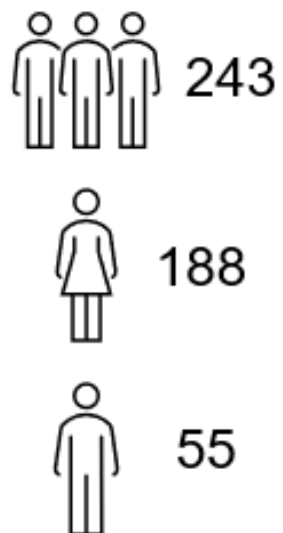
PACS



Score	5	4	3	2	1
Distention	Excellent	Good	Sufficient	Suboptimal	Poor
Cleansing	Excellent	Good	Sufficient	Suboptimal	Poor

Results

Median age: 71 years (range 18 - 91)



Colon



6 L



CT-scanner

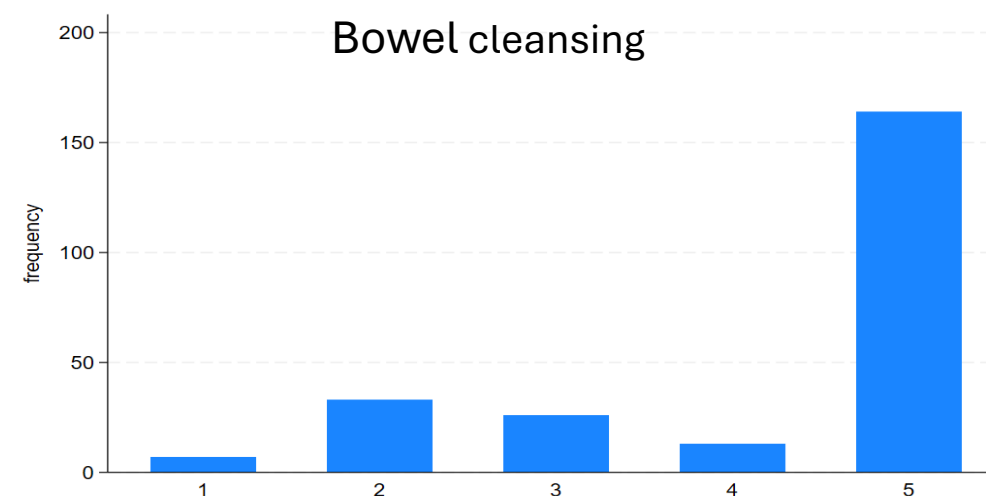
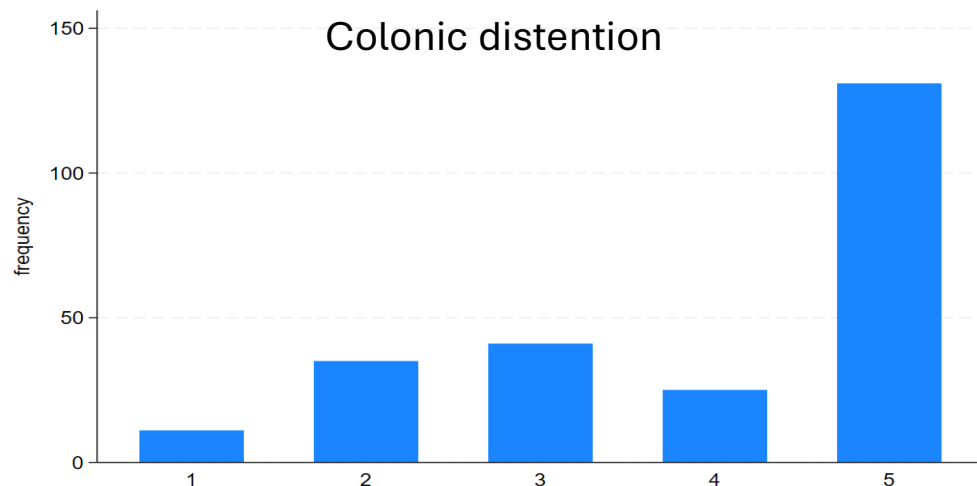


594 mGy·cm



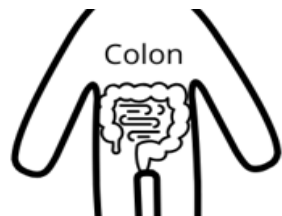
Results

Assessments of Colonic distention and Cleansing according to the 5-point Likert scale.

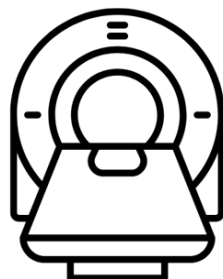


	Colonic Distention		
	OR	95 % CI	p-value
Score 2-5 vs. Score 1	0.86	0.68-1.09	0.217
Score 3-5 vs. Score 1-2	0.99	0.87-1.13	0.957
Score 4-5 vs. Score 1-3	0.98	0.87-1.11	0.853
Score 5 vs. Score 1-4	0.96	0.86-1.08	0.585

Conclusion



6 L (range 1.5–16 L)



594 mGy·cm (IQR: 438.8–866.1)

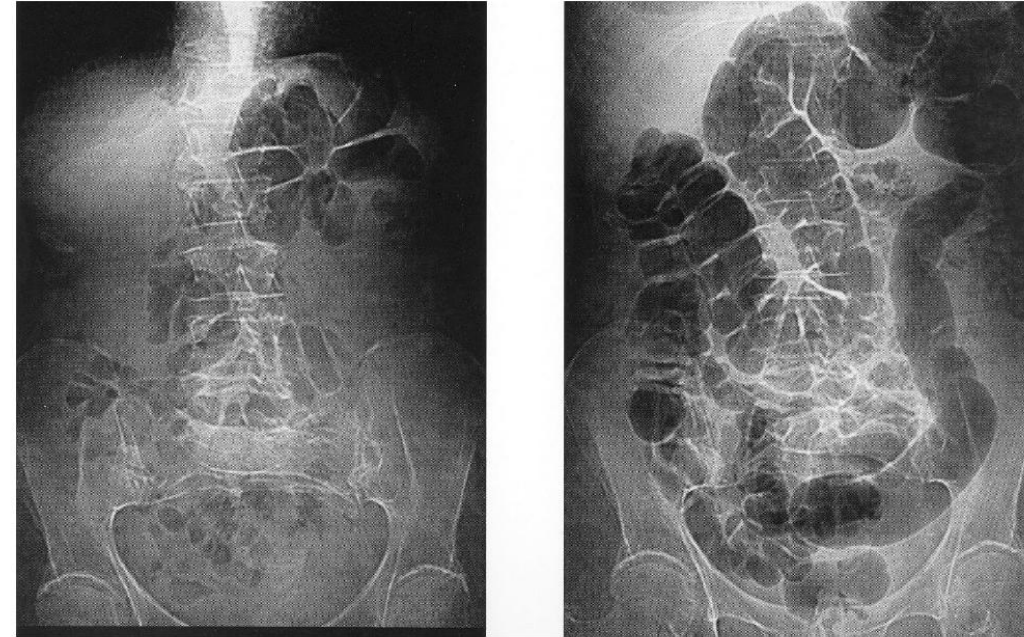
CT-scanner



222 examinations (91.4%) suitable for diagnostic interpretation
21 examinations (8.6%) non-diagnostic.



Thank you for your attention.



Acknowledgements:

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