



 DUOMED

NAVICAM®

SMALL BOWEL CAPSULE WITH HD INTELLIGENT READING SUPPORT

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IN PARTNERSHIP WITH

ANX
ROBOTICA 



About Duomed

Duomed, an established value for over 45 years. A passion for medical technology and ensuring the availability of optimal total solutions in all circumstances. Duomed, as a partner for hospitals and medical professionals, only wants what is best for both staff and patients.

Duomed assists you in the search for a tailor-made total solution with a specialized portfolio of medical and software products, services and supplies & accessories in selected medical domains. Supported by our staff's years of experience, you are headed for a carefree future with a focus on process continuity.

About AnX

Founded in 2008, AnX, together with its sister company, Ankon Medical, has developed the NaviCam® System, a robotic control platform for gastrointestinal diagnosis & therapeutic applications. Bringing versatility in development & integration of multi-discipline technologies has named AnX as the leading robotic capsule technology company.

The NaviCam® system utilises advanced robotic technologies combined with innovative & intelligent software to give medical practitioners external control of capsules inside the human body.

Disclaimer:

AnX & its affiliates do not endorse the use of our reading support software as a substitute of a licensed healthcare practitioner, only to help aid diagnosis, patient advice or treatment. The images presented by NaviCam® software are for informational purposes only & should only be used solely at the discretion of the healthcare professional.

Data & results are retrieved from Gastroenterology, 2019 Oct;157(4):1044-1054.e5

Why NaviCam®?



Intelligent NaviCam Pro™ Reading Support Feature

Time saving for physicians & nurses with unmatched sensitivity, enabling a reading time of approximately 6 minutes



Cost Effective



Fast Video Downloading Time of <6 Mins Enables Quick Procedure Time



Excellent Ergonomics

No touch on skin, lightweight & adjustable sensor belt fits patient comfortably with compact data recorder - comes with extension belt



Non-Radioactive Method to Check Capsule Location

Integrated with a magnetic sensor, the capsule locator can confirm if the capsule is still inside the patient, without radiation exposure



NaviCam[®] Clinical Data Results

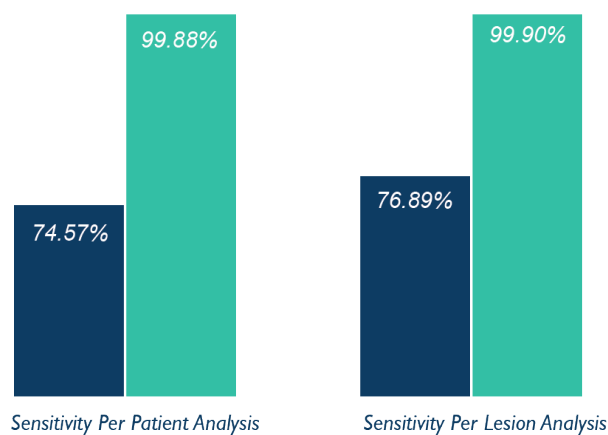
Aim

To achieve the highest sensitivity to screen out abnormal lesions

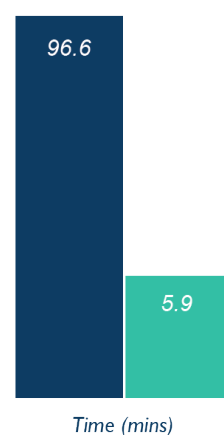
Data Source

113,426,569 images from 6790 patients who had SB-CE at 77 medical centres

High Sensitivity in AI Auxiliary Reading



High Time-Efficiency in AI Auxiliary Reading



■ Conventional Reading ■ AI-Based Auxiliary Reading

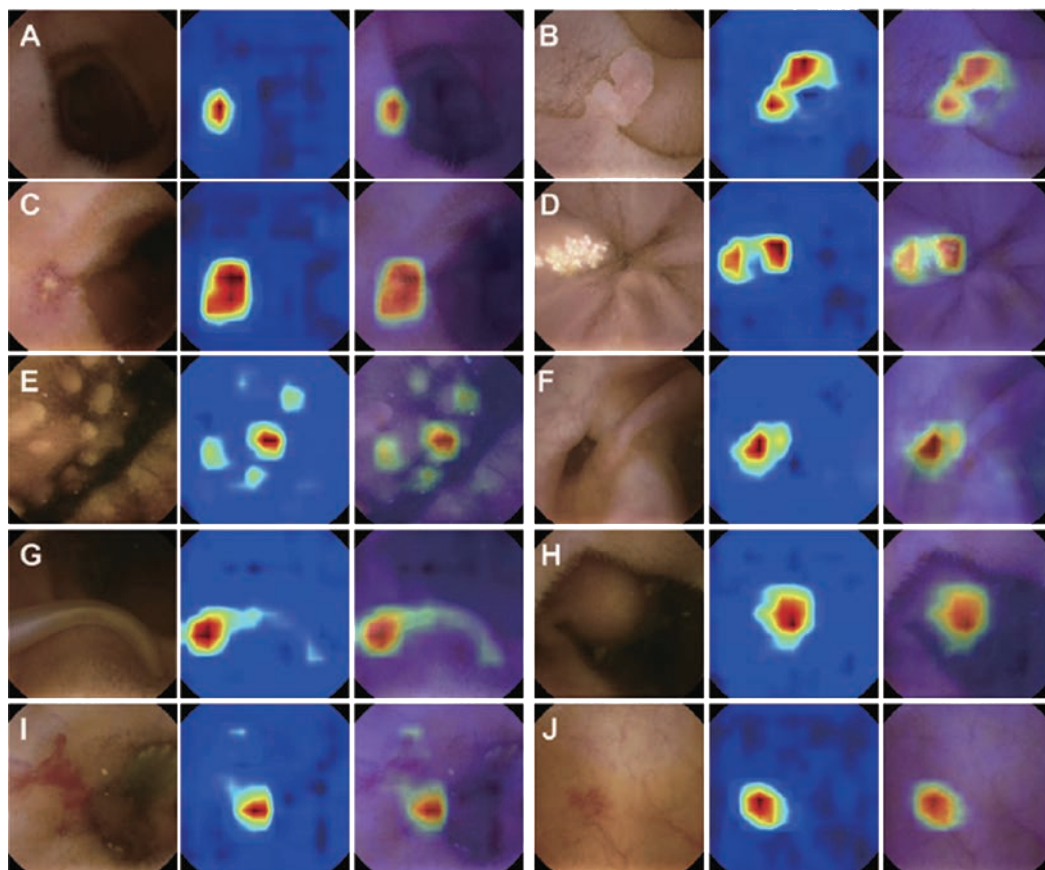
Higher Detection Rate Than Conventional Reading

Type of Intestine Lesions	Conventional Reading	AI Auxiliary Reading
Total	3154	4144

Conclusion

The CNN-based (AI) auxiliary model identified abnormalities with higher levels of sensitivity & significantly shorter reading times than conventional analysis by gastroenterologists. This algorithm provides an important tool to help gastroenterologists analyse SB-CE images more efficiently & more accurately.

- *Gastroenterology*. 2019 Oct;157(4):1044-1054.e5



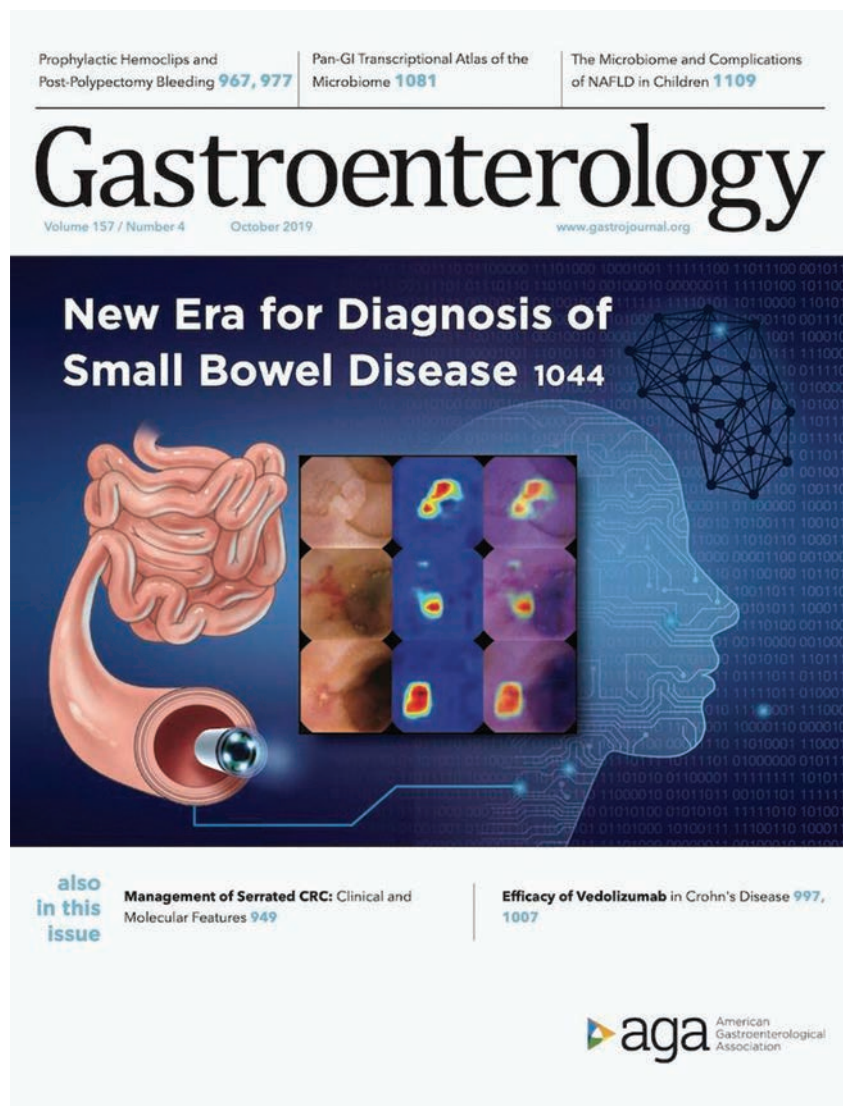
Lesions in Small Bowel

Left: Original Image
Middle: Heatmap by AI
Right: Merger of Images

- A: Inflammation
- B: Polypus
- C: Ulcer
- D: Lymphangiectasia
- E: Lymphatic Follicular Hyperplasia
- F: Diverticulum
- G: Parasite
- H: Protrusive Lesion
- I: Bleeding
- J: Vascular Disease

Gastroenterology, 2019

- Capsule endoscopy has revolutionised investigation of the small bowel. However, this technique produces a video that is 8–10 hours long, so analysis is time consuming for gastroenterologists.
- We collected 113,426,569 images from 6970 patients who had SB-CE at 77 medical centres from July 2016 through July 2018.
- The CNN-based auxiliary model identified abnormalities with higher levels of sensitivity and significantly shorter reading times than conventional analysis by gastroenterologists. This algorithm provides an important tool to help gastroenterologists analyse SB-CE images more efficiently and more accurately.



NAVICAM® SYSTEM



Capsule Endoscope



Capsule Locator



Sensor Belt



ESVIEW Software with
NaviCam® Pro™ Reading Support Feature

Supplier	Article Nr.	Description
AnX Robotics	NS-I	NaviCam® Capsule Endoscopy System (Suitcase with AKRK-2 + belt + charging kit inside)
AnX Robotics	AKS-I	Locator for capsule
AnX Robotics	NS-I-FL	NaviCam® ProScan (full license)
AnX Robotics	NS-I-AL	NaviCam® ProScan (annual subscription)
AnX Robotics	AKES-I ISK	NaviCam® SB Capsule

