



AI-ASSITED CAPSULE ENDOSCOPY

PHAM CHI TOAN,MD.



Horizon Unbounded

Pushing the boundary on capsule hardware, our new OMOM HD delivers superior image quality powered by our new optical technology. With more evident details from higher resolution images, ultra-wide-angle view, SpeedSense technology and longer battery life, OMOM HD ushers in the era of simple but confident diagnosis.

Industry-leading Features

512*512 Pixel

>300% improved resolution
Unparalleled clarity

2-10 FPS

Enhanced sampling frequency.
Upgrade by SpeedSense

172 Degrees

Ultra-wide viewing angle
Improved tissue coverage

12 Hours

Increased capsule working hours
Extended reach and duration

Compact capsule

Ergonomic design.
Dimension 25.4mm*11mm
Weight 3g

Disposable belt cover

Disposable belt cover is now available as contact-free option.



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Reading made Smart

The new face - Vue Smart

With major upgrade on patient management center and reading screen, the new Vue Smart offers healthcare providers even more user-friendly interface and stress-free reading experience.



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AI-Powered, Smarter Ever.

With our advanced AI algorithms, the Vue Smart is at the new technological frontier in redundancy deletion, lesion detection and classification that guarantees easier-than-ever interpretation as well as improved clinical outcomes.

SmartScan

Utilizing our proprietary algorithms, **SmartScan** processes the raw files by deleting up to 90% redundancy, identifying and tagging as many as 16 types of abnormalities. After SmartScanning, the SmartView and SmartFinding are ready for use.



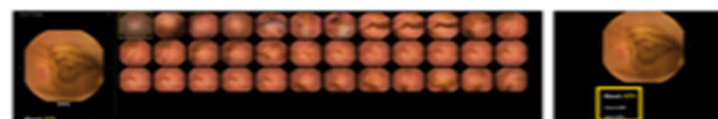
SmartView

SmartView reading mode will only play the pictures picked up by SmartScan, assisting users in quickly navigating through the full video. Highlighted marks above the time bar show the images which can be displayed as a short video.




SmartFinding

By capturing the most prominent characteristics of selected images with predictive results, **SmartFinding** helps doctors by displaying the abnormalities and suggesting descriptions. Images are displayed as page view.





LESS IS MORE



We learn. We listen. We create.

We have been learning from our past successes and frustrations. We have been listening to our valued customers' expectations fulfilled or yet to be met. Now, we have created the smartest capsule endoscopy system, OMOM HD.

Reading cannot be easier.


Integrated with the evolving Artificial Intelligence and the most advanced optical technology, the OMOM HD capsule endoscopy system aims to assist healthcare professionals with unprecedented ease of interpreting capsule endoscopy studies.

Less Reading Time, More Evident Details.

VUE Smart Powered by AI

A total of 5,825 small bowel capsule endoscopy examinations were collected from centers to train and to validate the SmartScan, which is the AI feature of VUE Smart. A clinical study was published in JAMA Network OpenTM and indicated SmartScan assisted (SSAR) achieved a 10.7% higher sensitivity and a 89.3% less reading time than conventional reading (CR).

Sensitivity
+10.7%

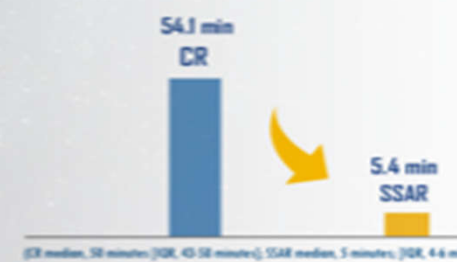


88.1% CR

98.8% SSAR

(CR 88.1%, 95% CI, 86.7%-89.2%; SSAR 98.8%, 95% CI, 98.2%-99.2%, P < .001)

Reading Time
-89.3%



54.1 min CR

5.4 min SSAR

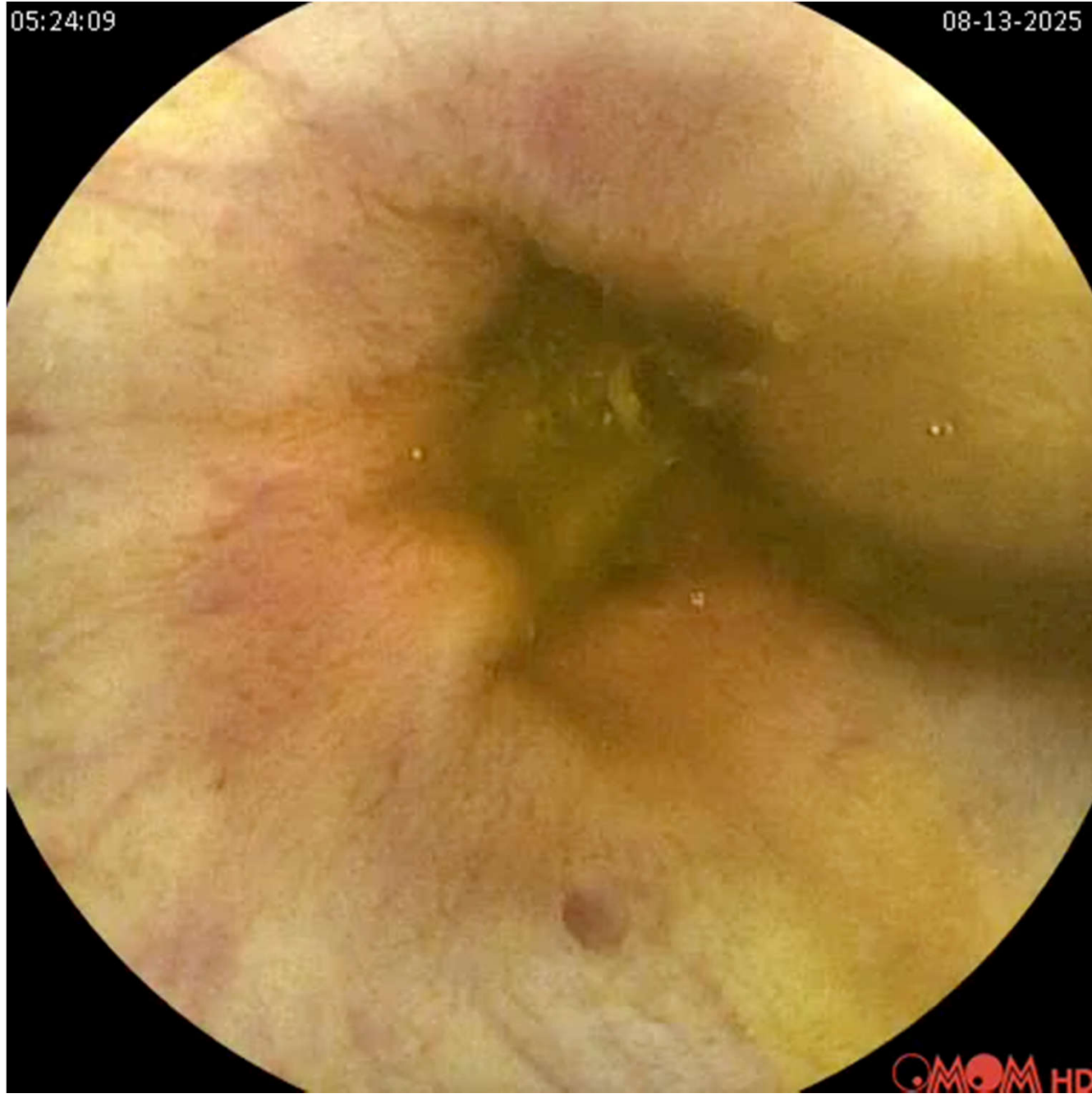
(CR median, 58 minutes; IQR, 45-58 minutes; SSAR median, 5 minutes; IQR, 4-6 minutes)

[1] Xia Xie, et al. JAMA Network Open. 2022; 5(7): e2221992. doi:10.1001/jamanetworkopen.2022.21992
Development and Validation of an Artificial Intelligence Model for Small Bowel Capsule Endoscopy Videos

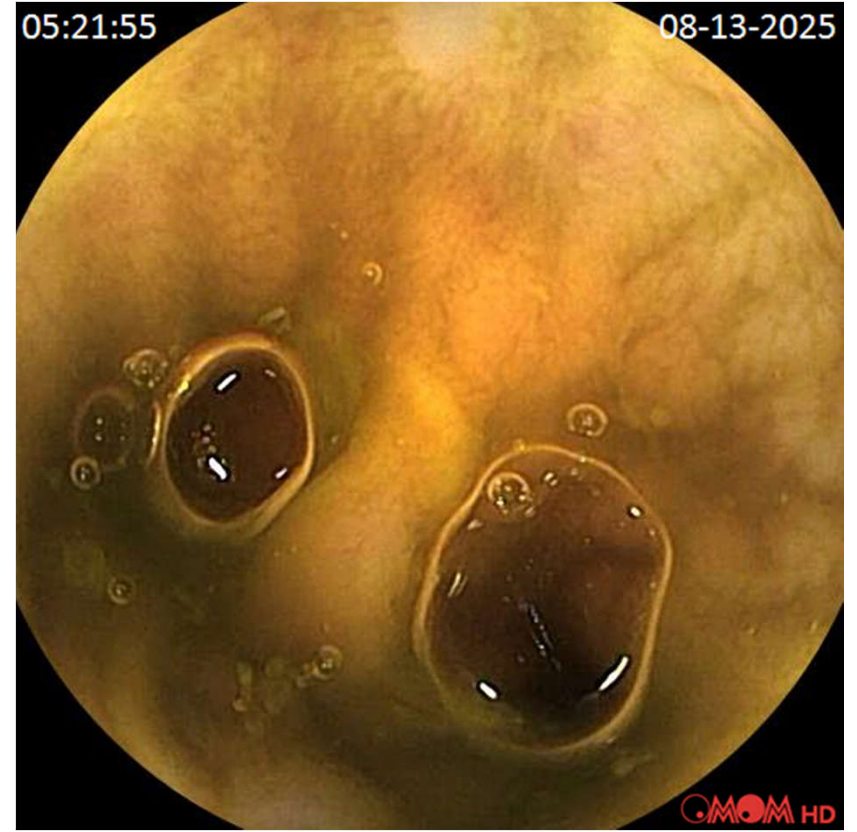
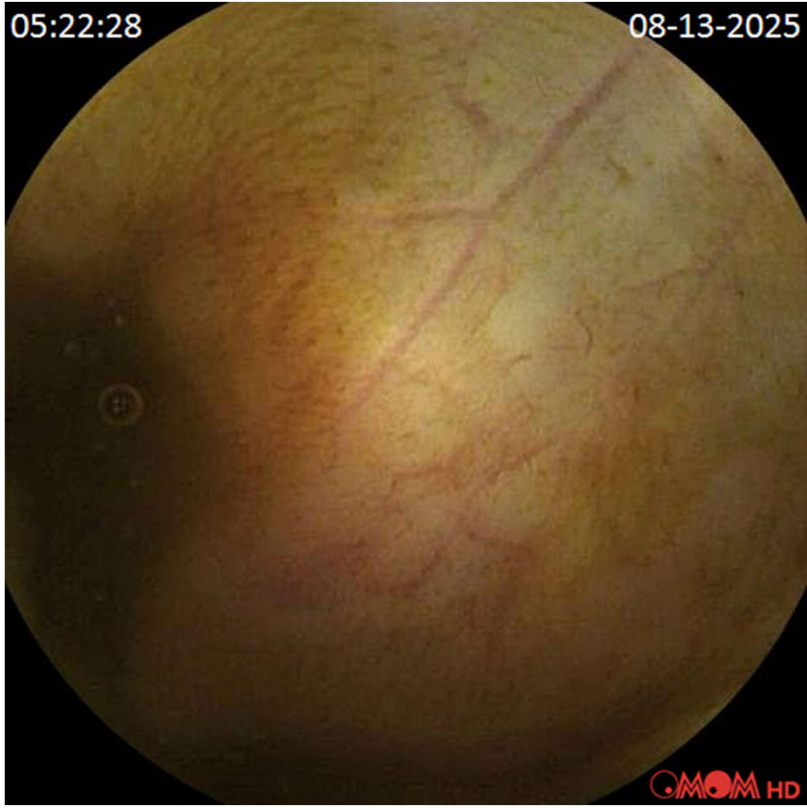


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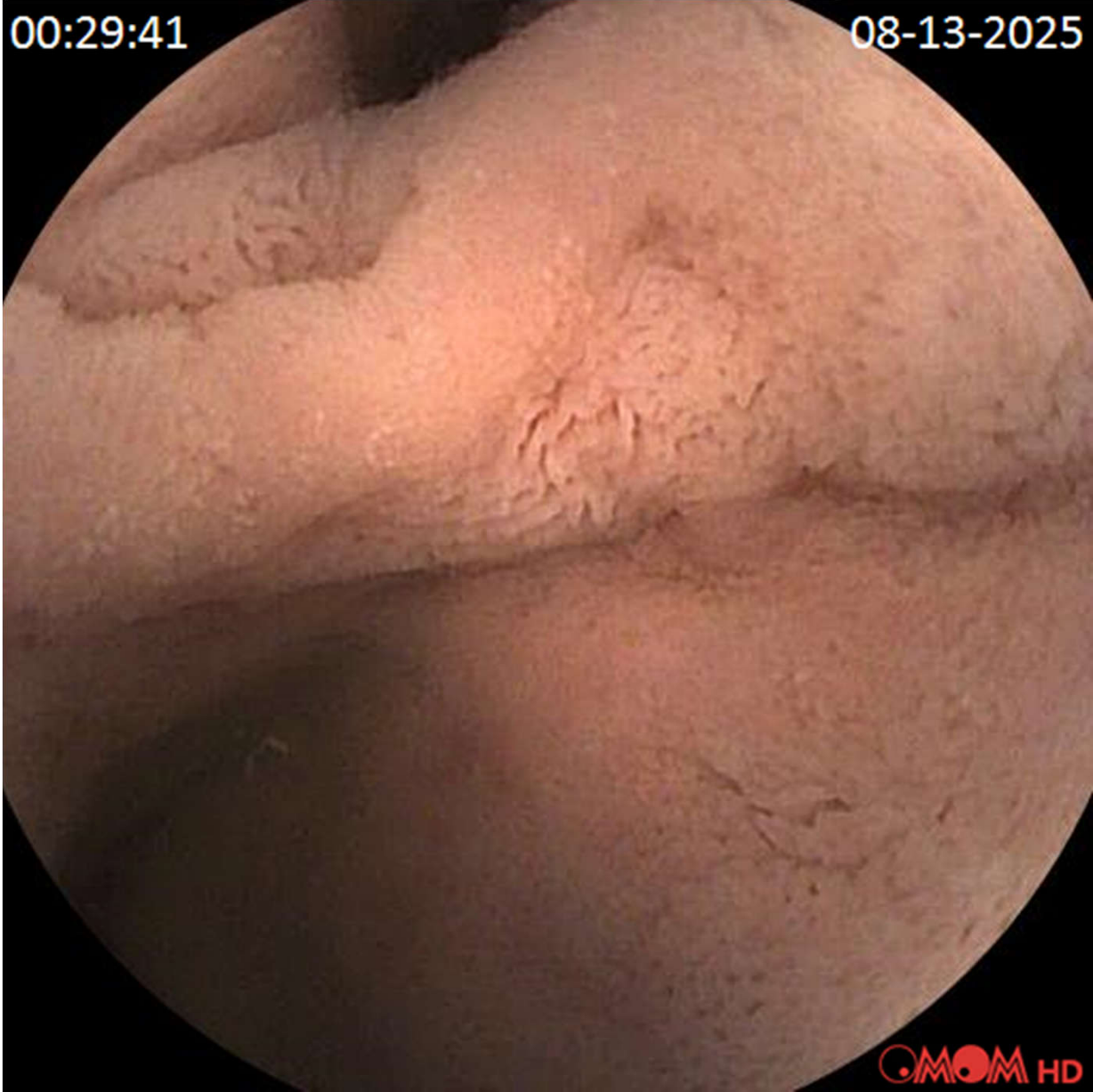
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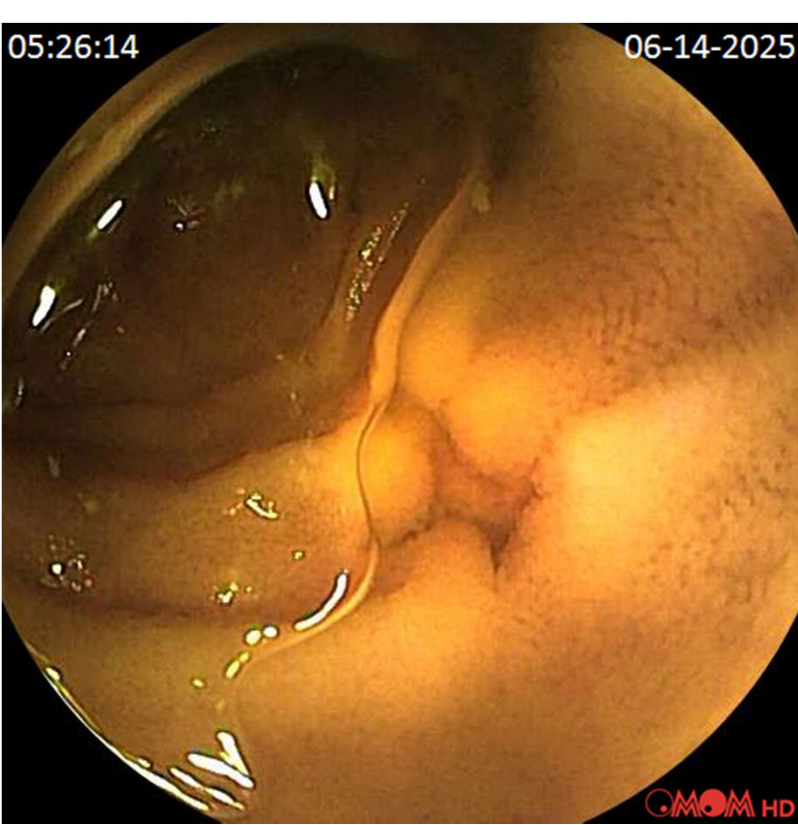
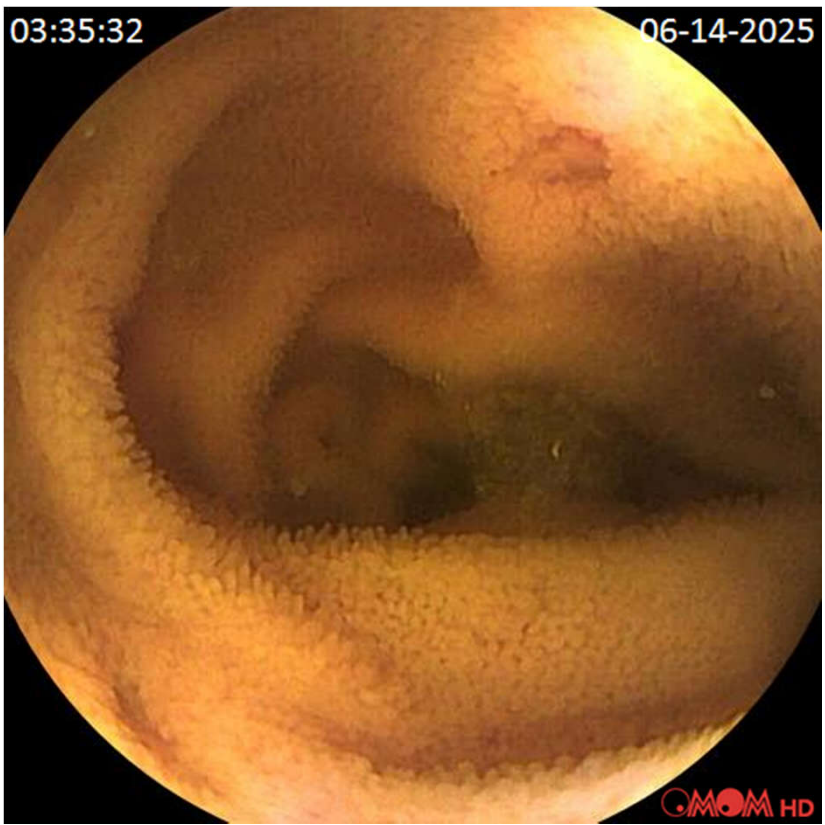
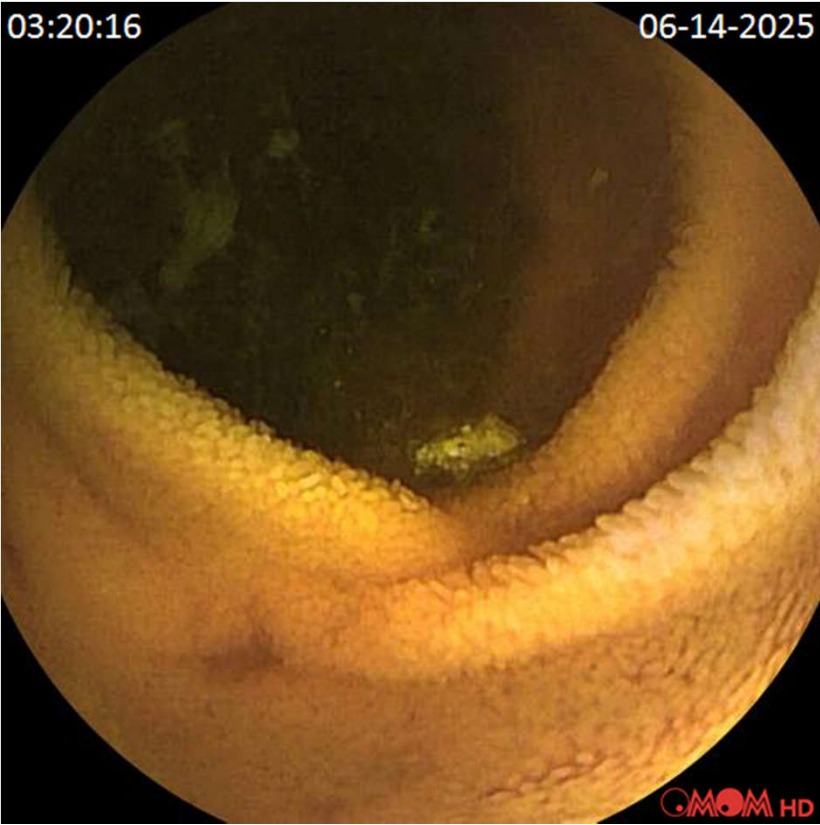


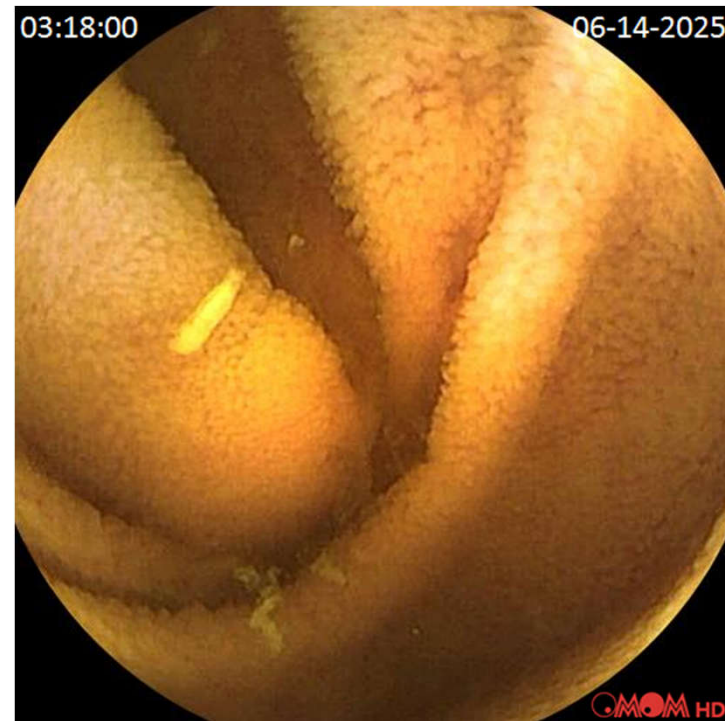
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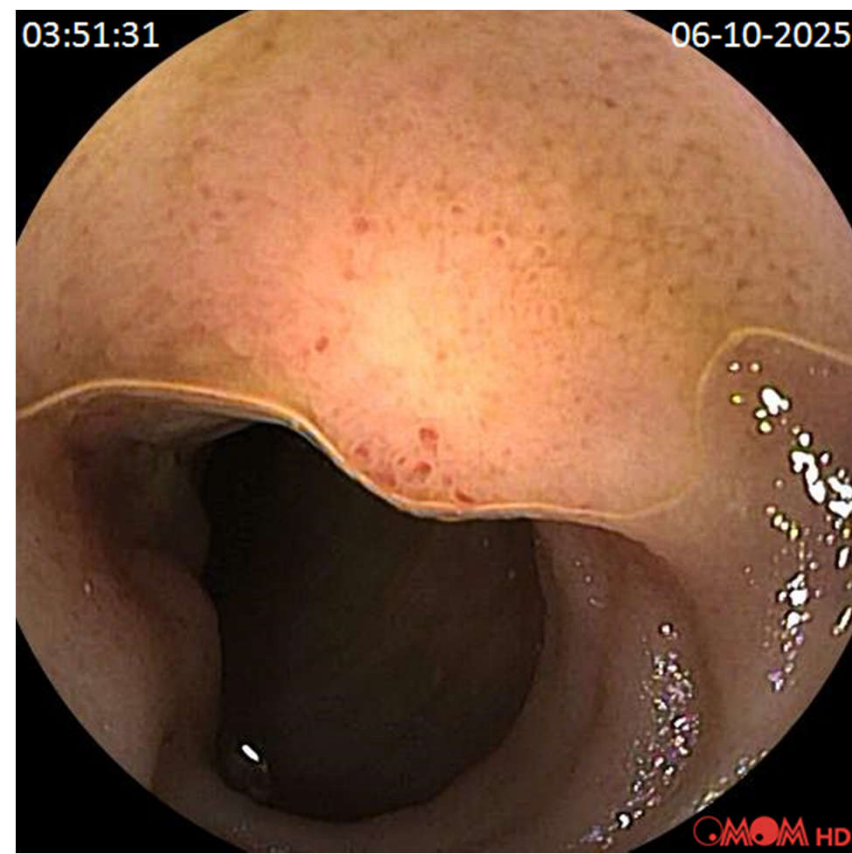
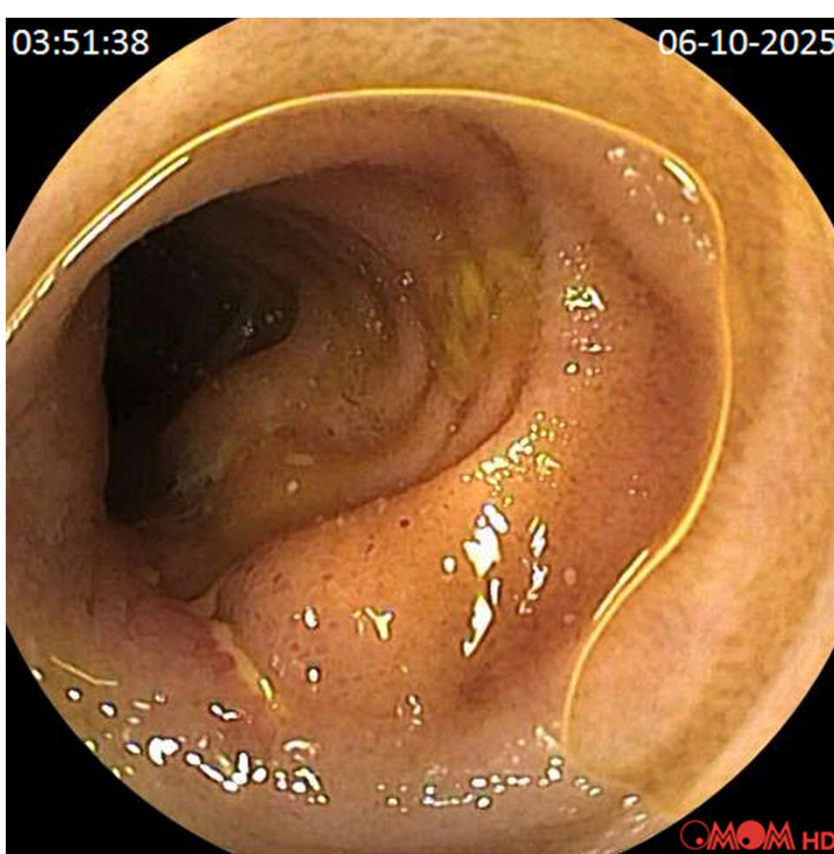
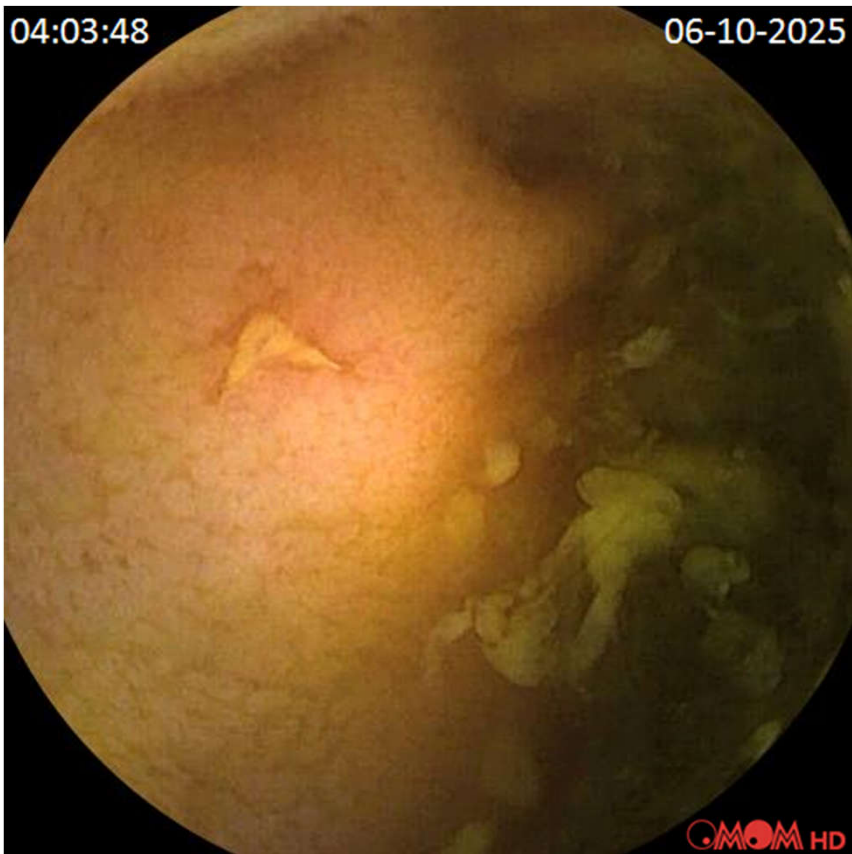
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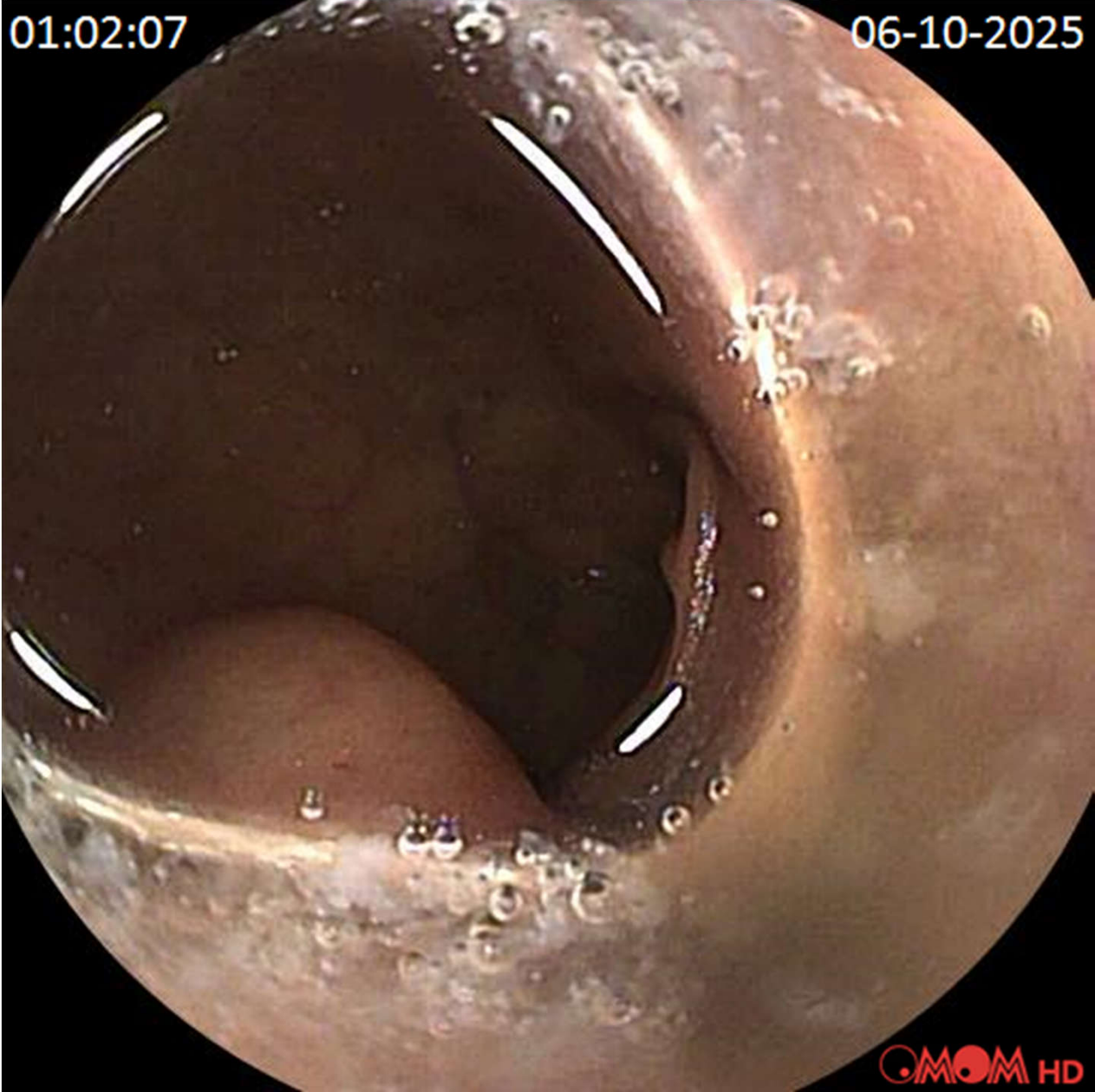


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Conclusions

- 2 months
- 7 cases
- Saving time 1h30→45mins
- Not all lesions detected by AI (bleeding, enteritis, tumor)
- More cases
- Not replace human eyes