



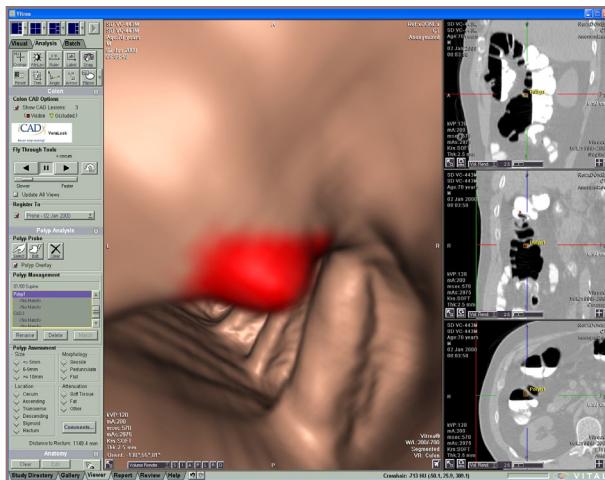
VeraLook

iCAD

Superb polyp detection and improved clinical confidence for virtual colonoscopy.

Colorectal cancer is the third most commonly diagnosed cancer and the third leading cause of cancer death in both men and women in the US.¹ About 75% of new cases occur in people without risk factors.

Clinical evidence shows that colorectal cancer is far more treatable when it is detected early. Most colorectal cancers begin as a polyp, a small growth in the wall of the colon. However, over time, some polyps grow and become malignant.



Virtual colonoscopy has been shown to be highly effective in the detection of polyps and adenomas in the colon.^{2,3} It is possible, however, for radiologists to have difficulty visualizing polyps, even with careful study review.⁴ Computer-aided detection (CAD) for virtual colonoscopy has been shown to be effective in the detection of colonic polyps⁵ and to have a positive effect on reader sensitivity.⁶

VeraLook™ is advanced CAD software with sophisticated algorithms that detect and highlight potential polyps in virtual colonoscopy images.

Indicated for use as a second read, VeraLook is designed to enhance clinician accuracy and effectiveness by improving detection of colonic polyps — pedunculated, sessile, flat and fluid submerged.⁷ In addition, the software may improve clinical confidence in interpreting exams, particularly for less experienced readers. VeraLook can be used with a wide variety of patient preparation protocols and can analyze images with or without stool tagging.

¹ American Cancer Society. *Colorectal Cancer Facts & Figures 2008-2010*. Atlanta: American Cancer Society, 2008.

² Pickhart, et al., "Computed tomographic virtual colonoscopy to screen for colorectal neoplasia in asymptomatic adults", *NEJM* 2003; 349: 2191-2200.

³ Johnson CD, et al., "Accuracy of CT colonography for detection of large adenomas and cancers", *NEMJ* 2008; 359: 1207-17.

⁴ Doshi, et al., "CT Colonography: False-Negative Interpretations", *Radiology* 2007; 244: 165-173.

⁵ Summers, et al., "Computed tomographic virtual colonoscopy computer-aided polyp detection in a screening population", *Gastroenterology* 2005; 129: 1832-1844.

⁶ Petrick, et al., "CT colonography with computer-aided detection as a second reader: Observer performance study", *Radiology* 2008; 246: 148-156.

⁷ Data on file.

Superb algorithms detect more polyps.

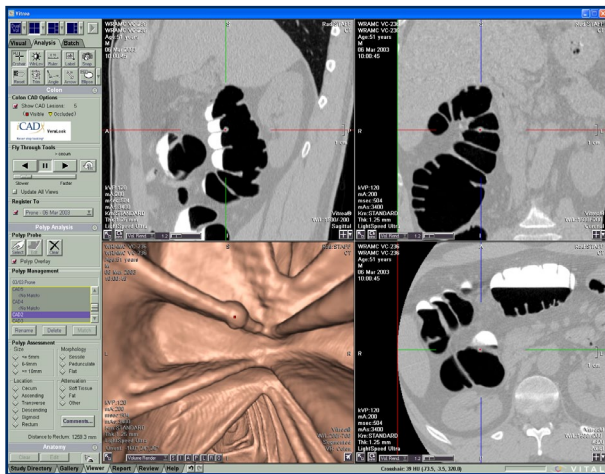
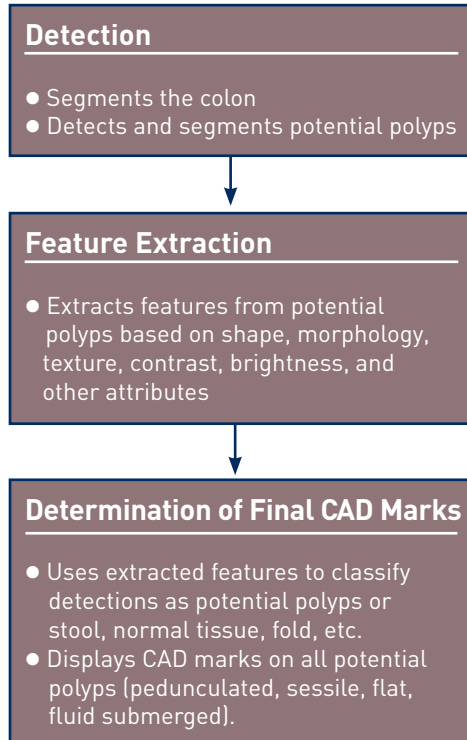
VeraLook uses advanced algorithms to detect and highlight potential polyps and adenomas in virtual colonoscopy exams — pedunculated, sessile, flat and fluid submerged — on images taken with a wide variety of patient preparation protocols and with or without stool tagging. VeraLook image analysis uses:

- **Image Processing** to identify/detect all areas in the image with polyp-like patterns.
- **Pattern Recognition** to extract mathematical attributes from suspicious regions in the image based on their features (geometry, morphology, brightness, curvature, texture) and compare them to attributes of known polyps.
- **Artificial Intelligence** to classify and score suspicious regions based upon their correlation with known polyps.

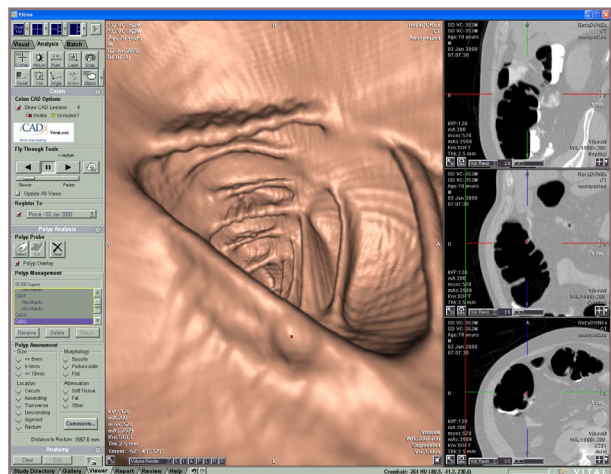
Seamless integration may improve workflow.

VeraLook is integrated into the Vital Images Vitrea advanced visualization workstation and provides:

- Clear identification of potential polyps on the 3D “fly-through” view and all 2D CT images
- Easy-to-navigate CAD summary panel and quick, “bookmark” access to all CAD marks
- Rapid CAD analysis of the original CT images — all CT system manufacturers are supported



VeraLook highlighting polyp in 2D view.



VeraLook highlighting polyp in 3D view.



98 Spit Brook Road, Suite 100 Nashua, NH 03062

+1 866 280 2239 toll free +1 937 431 1464 phone sales@icadmed.com email

www.icadmed.com