



KODAK DIRECTVIEW CR 800,  
900 Systems Provide Efficiency,  
Ease of Use at New Rural Hospital.



# INNOVIS HEALTH

When it opened its doors last year, Innovis Health in Fargo, North Dakota, was committed to digital image capture.

"Our decision to implement Kodak computed radiography (CR) systems is a reflection of our commitment to implementing a state-of-the-art, all-digital radiology department," explains Shawn Worley, director of radiology for the hospital.

After evaluating several CR vendors, Worley said he found significant differences between systems. "The Kodak CR platform offered significant enhancements in efficiency and ease of use," Worley says. "Other systems required many steps to input data and process an image. The Kodak interface is streamlined, and takes only one or two steps. That's one reason why our technologists

can process more patients with the Kodak CR systems."

Innovis Health is a 77-bed, not-for-profit hospital in Fargo, N.D., that opened in October 2000. It is owned jointly by Blue Cross/Blue Shield of Minnesota and Dakota Clinic Limited and draws patients from eastern North Dakota and western Minnesota. The radiology department performs 65,000 diagnostic procedures annually.

Kodak DirectView CR 800 systems are located in the orthopedic room and the ER/Trauma room. Worley says CR imaging allows his staff to produce high-quality images even under difficult conditions, or with less than optimum technique. "The ability to reprocess an exam to produce a good image, without taking another exposure, is the real beauty of CR," he says.



*Shawn Worley, director of radiology for Innovis Health, reports that the Kodak DirectView CR 900 system streamlines workflow in the hospital's main radiology department.*

*Front cover: Innovis Health in Fargo, N.D. installed Kodak DirectView CR 800 and CR 900 systems as part of its commitment to a high-quality, all-digital radiology department.*



*Douglas Landers, M.D., examines a lumbar spine film captured on a Kodak CR 900 system and produced on a Kodak DryView laser imager.*

### **KODAK DIRECTVIEW CR 900 Supports Several Exam Rooms**

A Kodak DirectView CR 900 system serves the main radiology department. The CR 900 system is capable of processing up to eight cassettes at a time and is designed for centralized, high-volume CR environments.

“The CR 900 is used for all our exam rooms in the main radiology department—anything from portables to routine radiographs and fluoroscopy,” Worley says.

Two Kodak DirectView remote operations panels are located in the surgical recovery area and in the CCU/ICU area. These wall-mounted panels allow radiographic technologists

to enter patient identification and study information without leaving the exam room, facilitating workflow and providing an opportunity for better patient care.

“For example, technologists conducting several portable x-ray procedures can identify and separate each patient’s image up on the floor, instead of trying to juggle several plates at one time, putting a sticker on them and trying to remember which x-ray belongs to which patient,” Worley says. “They can bar-code the cassette and relate it to a particular patient.” The result is less stress for technologists and elimination of ID errors.

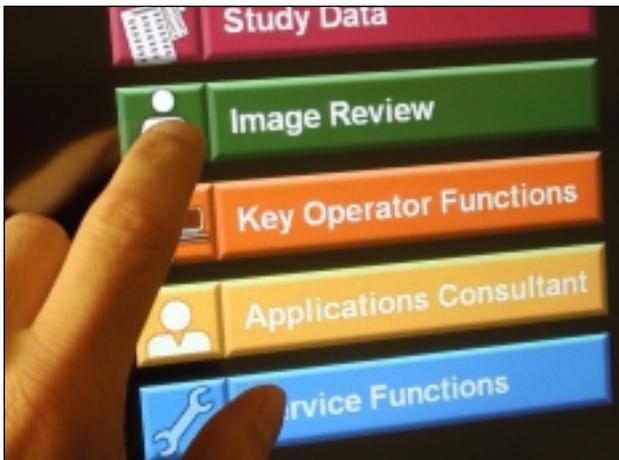
### **KODAK DIRECTVIEW EVP Software Optimizes Image Quality**

Innovis uses Kodak DirectView EVP software to optimize its CR images. “Using the EVP software on orthopedic and other types of images provides markedly higher quality than I have seen with traditional film/screen techniques,” says Worley. “As a result, fewer exams need to be repeated.” EVP software improves both image quality and consistency, making exposure variances almost impossible to detect.

Though Innovis Health utilizes all digital imaging modalities, radiologists continue to read from film. Imaging systems are linked over the radiology department’s local area network to three Kodak DryView™ 8700 laser imagers. DryView systems require no plumbing or film-processing equipment; images are written to film by a laser and emerge from the imager completely dry, at speeds up to 120 films per hour.



*Jenie R. Aberle, RT, verifies the quality of an image acquired using the Kodak DirectView CR 800 system.*



*This touch-screen interface is easy to learn and to use, and helps improve technologists' productivity on Kodak DirectView CR systems.*

"We chose the DryView imagers because they produce excellent image quality and have a proven record of reliability," Worley says. "Unscheduled maintenance is almost nonexistent with this equipment."

Worley says that Kodak support for both CR and laser imaging systems has been excellent. "Our support from Kodak is wonderful. We rarely have any issues, but when we do our local service engineer comes immediately."

After implementing a radiology information system in 2002, the hospital

will make the transition to all soft copy interpretations, saving the hospital up to \$1 million annually in film related costs. The hospital already has implemented Web-based viewing technology, allowing physicians to access any diagnostic image from a desktop PC.

"Digital imaging is a wise investment—even for a smaller, rural hospital like ours—because of the advantages it offers in terms of image quality, image distribution, and staff productivity, as well as patient care," he said.

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