



› FIRST HAND EXPERIENCE

“C-SUITE IS A VERY POWERFUL SYSTEM FOR REVIEWING IMAGES, IMPROVING PROCEDURES AND FOR EDUCATION.”

– Charles Nutting, D.O., FSIR, Interventional Radiologist, Ridge Medical Center

Advances in medical technology can lead to a variety of positive outcomes for patients, medical providers and the community. Since Sky Ridge Medical Center in Lone Tree, Colorado, invested in significant enhancements to its interventional radiology suite, the hospital has seen the multiple benefits of being able to perform more complex minimally invasive oncology procedures.

In September 2010, Sky Ridge integrated three major additions to its interventional suite:

- The GE Innova 4100 for fluoroscopy and angiography
- The Veran IG4 electromagnetic navigation system
- The Carrot Medical C-View System

The Carrot C-View System replaced four traditional 19-inch monitors with a single, high-resolution 56” display and video-processor that can simultaneously integrate up to 16 video sources.

Dr. Charles Nutting, an interventional radiologist at Sky Ridge who performs planning angiography, chemoembolization and radioembolization, described how the Carrot C-View display transformed his workflow:

“I used to have to go to another room to look at the patient’s CAT scan and return with a mental snapshot. Now, I have immediate access to patient images from prior studies right in front of me on the Carrot display while I’m performing the angiogram, embolization, or biopsy. It significantly improves efficiency and accuracy.”

Eight physicians at Sky Ridge now regularly use the interventional suite. C-View enables them to customize their own pre-set configurations, allowing each physician to immediately select or adjust their imaging preferences as clinical requirements change during procedures or between cases.

Sky Ridge has subsequently added the two other major components from Carrot Medical’s product portfolio: the C-Com Audio Communication System and the C-Suite Video Streaming and Recording System. Both solutions were installed, and fully integrated, with the C-View System by the Carrot Medical Support Team.

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CLARITY. CONTROL. CONFIDENCE.

“THE INSTALLATION AND INTEGRATION OF CARROT’S SYSTEMS WITH THE OTHER TECHNOLOGIES IN THE LAB WAS FLAWLESS.”



About Sky Ridge Medical Center

Since it opened in August 2003, Sky Ridge Medical Center has been the leading acute care hospital in Douglas County, Colorado. It features a Level 3 Emergency and Trauma Center, a Cancer Center, Women’s Services and Pediatrics departments, and offers advanced laboratory, radiology, imaging and ultrasound services. Sky Ridge has achieved worldwide recognition as an exceptional community hospital that performs a high volume of complex interventional oncology procedures. For more information please go to skyridgemedcenter.com.

Carrot C-Com optimizes teamwork.

“C-Com has made a tremendous difference in reducing room noise and improving the efficiency of our technologists and nurses,” said Dr. Nutting. “Before, team members would shout to each other, which can be very distracting in these precision procedures, and also disturb the patients under conscious sedation. Now, we can speak quietly and hear very clearly through the headsets. It also enables a circulating technician to leave the room to do other things, and still quickly respond if we need something.”

Carrot C-Suite streams and records procedures.

The Carrot C-Suite System enables real-time video streaming from the Sky Ridge interventional suite to a large monitor in a nearby conference room. This makes it possible for others to observe the procedure and, if necessary, enter the room at key moments.

Sky Ridge also uses C-Suite to record all the video and imaging from a procedure. It can then be readily distributed and reviewed by the attending or other clinicians, and also used for conference presentations while maintaining patient anonymity. “It’s a very powerful system for reviewing images, improving procedures and for education,” said Dr. Nutting.

The whole exceeds the sum of the parts.

Dr. Nutting said that the installation and integration of the three vendors’ technologies in the interventional suite was “flawless.” He credits the Carrot solutions with “pulling it all together” and maximizing the benefits GE and Veran systems.

“The GE Innova 4100 produces excellent images and the Carrot display enables us to visualize them in very high detail for delicate embolization procedures. The Veran system combined with the Innova 4100 and the Carrot display enables us to create a three-dimensional model of the patient and accurately advance a needle or catheter at very complex angles without radiation. In the past, we’d have to perform multiple scans, repositioning to determine the right targeted approach, so the improvements in efficiency and effectiveness are significant.”

For many of the liver cancer patients who comprise the majority of Dr. Nutting’s cases, this technology has made a life-changing difference. Sky Ridge Medical Center has been noted as one of the top five institutions in the U.S. for SIR-Spheres microspheres therapy for patients with inoperable liver tumors.

Not everyone who visits Sky Ridge’s interventional suite has as profound an appreciation for the hospital’s advanced capabilities as his patients. But, as Dr. Nutting noted, “Everyone who sees the Carrot display is amazed at the clarity and detail of images, and very impressed by what we can do with it.”



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