



Providence Everett Medical Center

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Chad Kent, RN  
Clinical Information Specialist  
The Heart and Vascular Institute  
Providence Everett Medical Center

## Providing Leading-Edge Care with CardioPACS™ Multi-Modality, Web-Enabled Imaging

### Providence Everett Medical Center Highlights

**Quick Access to Images via Streamlined Image Management.** CardioPACS has made images instantly available for retrieval and review, even when they have been archived. Images from disparate legacy systems and across different clinical areas have been pulled into CardioPACS, offering physicians immediate access from single workstations.

**Comprehensive Patient Information at the Point of Care.** Because CardioPACS is a multi-modality system, physicians and other clinicians receive a comprehensive view of the patient. Doctors can review images from different tests and procedures at one time and thus make better-informed patient care decisions.

**A Modern Workspace.** Deployment of CardioPACS digital imaging has allowed the Heart and Vascular Institute at Providence Everett to remove outdated image libraries that had been crowding the hospital. A single storage facility is now used for archived images dating back to 2002.

### A Top Heart and Vascular Institute

Providence Everett Medical Center is one of the most prestigious hospitals in the state of Washington; it also ranks consistently among the top medical facilities in the country. The Heart and Vascular Institute is in the top 10% in the nation for cardiology. It has received the highest possible rating for the treatment of heart failure and the number-one ranking for overall cardiac services in the state—as well as the number one position for Coronary Arterial Bypass Grafting (CABG).<sup>1</sup>

<sup>1</sup>HealthGrades® Distinguished Hospitals 2007. Providence Everett has also been recognized five times as a Solucient 100 Top Cardiovascular hospital.

Performing over 8000 procedures every year, including more than 500 open heart surgeries, the physicians, clinicians and staff at the Heart and Vascular Institute are acutely aware of the importance of a streamlined workflow. With that in mind, the Institute has implemented CardioPACS multi-modality imaging.

### Unifying Disparate Imaging Systems

CardioPACS is the latest step in the Heart and Vascular Institute's march toward a fully integrated medical record. After introducing various software systems to this end, it became apparent that consolidating the imaging systems for multiple clinical areas was a necessity. Reducing the time physicians spent waiting for images was the principal concern.

"The Cath Lab had a digital archive and a small storage device," says Clinical Information Specialist Chad Kent. "If a doctor wanted to look at an older study, it took about 20 minutes to get it. Echo used tapes for everything; it was like a giant VHS library. So as you can imagine, looking for images could take quite a while."

### Saving Time and Resources

Additionally, at a busy hospital like Providence Everett (with four individual Cath Labs and over 5000 Echo tests performed a year), maintaining libraries of such images took considerable resources and time. And storage of all the images in their various formats had become a problem. "We had rows and rows of magneto-optical drives; it was a bit of a nightmare," says Chad.

The Institute knew that integration of multiple imaging systems into one would save time and space for physicians, clinicians and staff. However, there was some apprehension about how difficult this process might be. "Cath alone had two different imaging systems," Chad says. "So when we went to CardioPACS we had to migrate and load all that."

Fortunately, during implementation there were in fact very few bumps. Chad says, "The migration from all the old systems into

### THE HEART AND VASCULAR INSTITUTE, AVERAGE PROCEDURE VOLUMES PER YEAR

- Catheterizations — 2200
- Interventions — 900
- Echocardiograms — 5000
- Open heart surgeries — 500



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# great applications

BUILDING CARDIOLOGY CENTERS OF EXCELLENCE

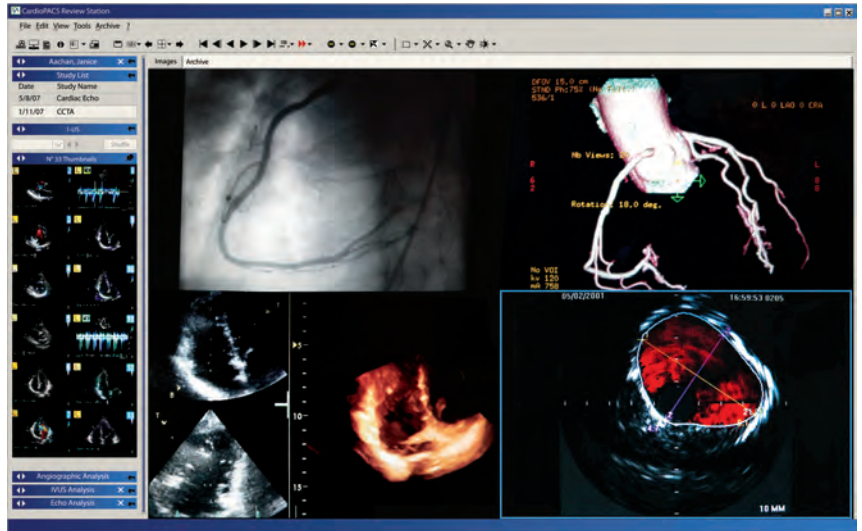
CardioPACS went smoothly. Everything is online and retrievable.”

## Speed, Access, Space

Now, says Chad, “The doctors can retrieve onsite images immediately. For archived images, it takes about 45 seconds. Our storage facility is 40 miles away, so we think 40 miles in 45 seconds is pretty good.” Moreover, the Institute has seen a marked drop in requests to pull records manually, resulting in a savings of about four hours of staff time a week.

“Physicians in particular find it far more convenient to read images because they can view both Cath and Echo patient studies from one workstation without having to go to a different system each time,” Chad says. In fact, “The biggest surprise after implementation was that the doctors wanted CardioPACS in many more places than we had anticipated. They want it on all floors, in all rooms.”

“Another thing we appreciate about CardioPACS is that we don’t have all the tapes and discs anymore. We have space,” Chad laughs. While streamlined image management was the principal reason for choosing CardioPACS, clinicians and staff at Providence Everett certainly enjoy the added bonus of a streamlined appearance as well.



CardioPACS

## LUMEDX SOLUTIONS AT PROVIDENCE EVERETT

- Apollo Advance™ Clinical Data Repository
- CardioDoc Physician Documentation and Reporting
- CardioGate™ Interface Manager
- CardioPACS Multi-Modality Imaging
- CardioSchedule™ Real Time Patient and Resource Scheduling
- CardioChart™ Web-Enabled Patient Record
- ACC Registry Module
- STS Adult Surgery Module
- HL7 ADT Interface

**About LUMEDX:** With over 600 heart center clients worldwide, LUMEDX is the market leader in fully integrated cardiovascular information and imaging systems and the No. 1 independent integrator of cardiology information solutions. LUMEDX offers the most proven, comprehensive package of clinical information tools, cardiovascular products, and services to help medical institutions enhance quality of patient care, reduce costs, streamline workflow, increase patient volume, and grow revenue.



555 Twelfth Street, Suite 2060, Oakland, CA 94607  
Tel 800.966.0699 • Fax 510.419.3699  
sales@lumedx.com • [www.lumedx.com](http://www.lumedx.com)

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