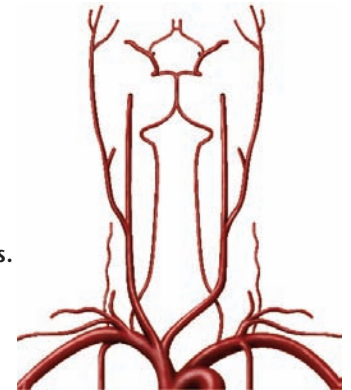


Today's Business Challenge: Document Peripheral Vascular Procedures Rapidly and Easily

Documentation is a crucial step in any Peripheral Vascular Invasive (PVI) procedure. Referring physicians, hospital administrators, insurance companies, the medical records department and hospital staff all use portions of the clinical, demographic, image and inventory information. And all concerned stakeholders require timely access to the patient case and clinical care details. Yet producing and distributing a report with manual systems can take days or weeks, slowing follow-up treatment and reimbursement. Physicians need a solution that allows them to complete, sign and distribute comprehensive documentation at case end—simply and quickly.



The Solution: CardioDoc PVI Reporting

CardioDoc is the premier structured reporting solution for physicians performing vascular procedures. With CardioDoc's PVI Reporting Solution, physicians can rapidly

- **Complete reports** for invasive diagnostic and endovascular procedures, including aortic and thoracic endograft repair
- **Sign** securely with a password-protected electronic signature
- **Automatically distribute** to referring physicians, medical records, billing, inventory management, their own offices and hospital administration

By documenting data digitally, CardioDoc ensures that physicians and referring physicians have all the information they need at their fingertips to provide the highest quality patient care. Additionally, all information added to CardioDoc becomes a part of the Apollo Advance™ database and can be used to satisfy American College of Cardiology (ACC) CARE™ Registry requirements. Thus, heart centers save time while ensuring the accuracy of their data.

Here's how CardioDoc's PVI Reporting Solution works:

1. **Registration.** The patient is pre-registered for the procedure using the hospital information system (HIS). Data is transferred to Apollo via an ADT interface, reducing redundant data entry and thus decreasing the chance of error.
2. **Procedure.**
 - i. PVI technicians record case details directly on the data entry forms. Data can also be transferred from the Witt Peripheral Vascular Hemodynamic interface populating the Apollo data repository.
 - ii. The clinical data entered by the technician or data retrieved from the hemodynamic interface is available in CardioDoc PVI for the physician's structured reporting and automatically generates vessel diagnostic findings and interventional procedure paragraph.

iii. The **Vascular Anatomy Editor** is utilized to depict diseased vessels and device locations accurately. It features 10 arterial and venous diagrams containing over 250 vessels (first, second and third order), including: Cerebrovascular Arteries and Veins; Upper Extremity/Thoracic Arteries; Abdominal Arteries and Veins; Lower Extremity Arteries and Veins, and Diagnostic Runoff (Diaphragm to Feet).

3. **Post-procedure.** The physician logs into CardioDoc and views a list of all of his patients with unfinished reports.

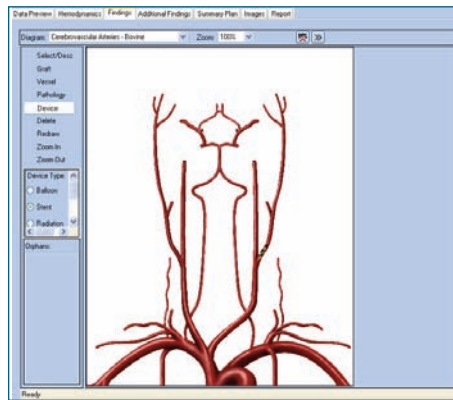
i. The physician selects the patient whose report he wishes to complete.

Last Name	First Name	Event Date	Date Of Birth	MRN	Report Status	Report Type
Aachen	James	1/11/2007	4/29/1961	2392908	Preliminary	CardioDoc PVI Report
Aachen	James	7/13/2007	4/29/1961	2392908	Preliminary	CardioDoc PVI Report
Aachen	James	4/29/1961	2392908		No Report	
Englehardt	Roberta		10/14/1963	333333333	No Report	
Test	Vessel	1/19/2007	1/8/1962	33333333333	No Report	
Test Vessel		1/19/2007	1/18/1957	2222222222	No Report	
Test Vessel		1/19/2007	1/1/2007	1111111111111	No Report	
Test Vessel		8/15/2007	1/1/2007	1111111111111	No Report	

Patient Select Screen

- ii. Data entry forms are pre-populated with information acquired during patient registration and procedure.
- iii. The physician reviews data from the Vascular Anatomy Editor, making any changes needed and adding missing data.
- iv. The physician can launch procedure images with **CardioPACS™** multi-modality imaging. Images can be selected and saved into CardioDoc—with just one click—for inclusion in the final report.

Data Preview Screen

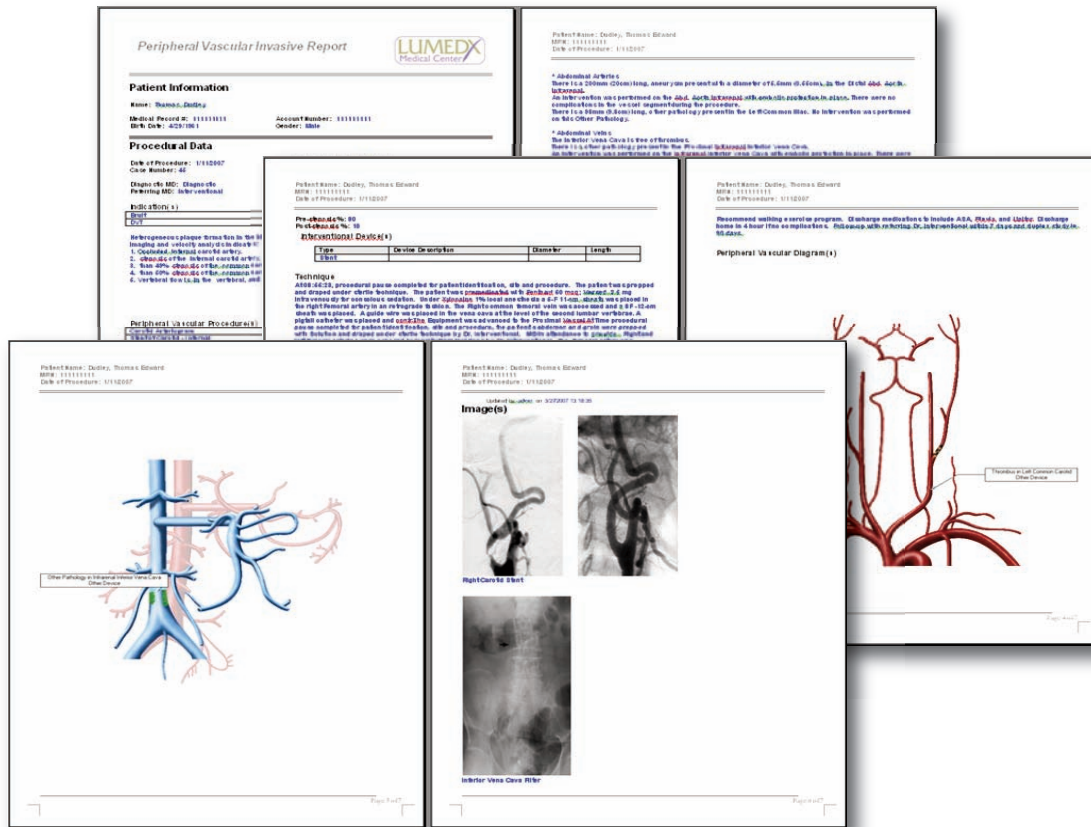


Vascular Anatomy Editor



CardioPACS Images

- v. The physician uses **Smart Note Advance Editor™** picklists and auto-entry to document any additional findings, the summary and plan for the report. The Smart Note Advance Editor enables physicians to choose the procedure comments needed quickly and is easily customized to the physician's preferences. These comments then build the conclusions included in the report, saving significant time.
- vi. The physician previews the completed report. Field validation ensures all required fields for the report are completed prior to finalization.
- viii. The physician electronically signs and finalizes the report.
- ix. **Auto-Distribution** can be configured to send the report automatically to the physician's own private practice, the referring physician's office, medical records, etc., via e-fax, e-mail or printer. The report and documentation process is complete.



Final Report

Benefits

Produce and Review a Structured Report at Case End. Using interfaces to connect hemodynamic equipment, imaging systems and the hospital information system, CardioDoc retrieves all patient-specific data and incorporates it into the PVI report. Procedure reports are thus created more quickly and accurately than with conventional dictation and transcription. Data is available immediately so that physicians can evaluate care strategies and patient outcomes.

Eliminate Transcription Costs and Associated Delays. Patient data is entered in real-time during the procedure. Therefore, the report is ready for physician review right at case end. He can add a summary and plan, sign with an e-signature and use Auto-Distribution to send it to the referring physician and medical records department immediately, days faster than with transcription-based documentation. Automated reporting also reduces transcription overhead and eliminates delays typically associated with repetitive editing and multiple reviews.

Increase Physician Satisfaction and Promote Follow-up Treatment. Because much of the report, summary and plan is completed with wizards, customizable pre-scripted templates and picklists, vascular physicians can document procedures easily and quickly. In turn, referring physicians receive a timely, focused report that clearly outlines ongoing patient care. Patient reports and images are accessible for review electronically, as well as via the hospital internet or intranet. The quick turnaround time, accessibility and comprehensiveness of CardioDoc all help to ensure high-quality follow-up care, increase physician satisfaction and promote rapid treatment in case of emergency.

About LUMEDX: With over 500 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.