

Today's Business Challenge: Document Cath Lab Procedures Quickly and Easily

Documentation is a critical step in any cath lab procedure. Referring physicians, hospital administrators, insurance companies, the medical records department, staff and patients all use portions of the clinical, demographic, image and inventory information. All parties involved require timely access to case 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 Cath Reporting

CardioDoc is the premier structured reporting solution for cardiology. With CardioDoc's Cath Reporting Solution, physicians can rapidly

- **Complete reports** for coronary catheterizations, interventions and other cath lab procedures
- **Sign** securely with an 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 part of the Apollo Advance™ database and can be used to satisfy the American College of Cardiology (ACC) registry requirements. Thus, heart centers save time while ensuring the accuracy of their ACC data.

Here's how CardioDoc's Cath 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. Cath lab technicians record case details into the hemodynamic equipment. An interface transfers this data to CardioDoc and Apollo. Alternatively, techs can use CardioDoc's **Clinical Documentation (ClinDoc)** feature to record these details.
 - ii. Inventory information can either be scanned in or manually entered.
 - iii. The technician records any pertinent details that the physician calls out during the procedure, including lesion location, balloon inflations and stent placement.
 - iv. The **Coronary Anatomy Editor**, a visual rendering of the coronary anatomy, is used to depict lesion and device locations accurately.

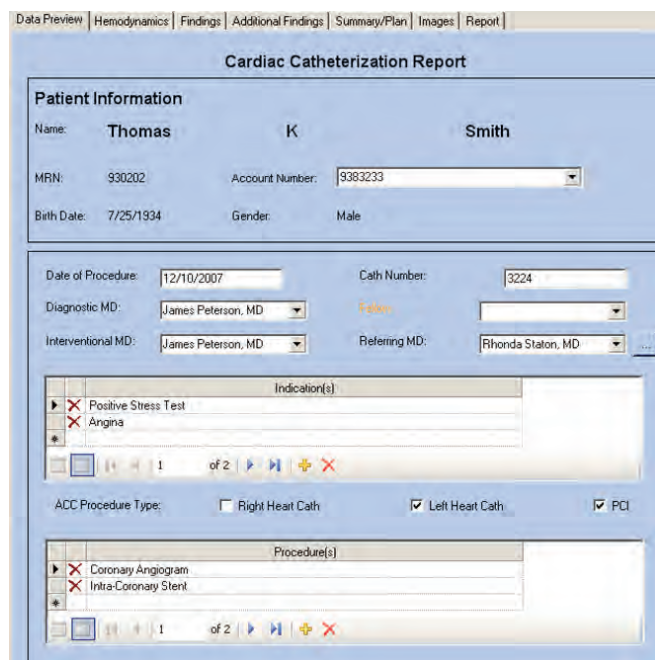
3. **Post-procedure.** The physician logs into CardioDoc and sees a list of all of his patients with unfinished reports.

- i. The physician selects the patient whose report he wishes to complete.
- ii. CardioDoc automatically takes the physician to the appropriate report workflow based on procedure performed for a more streamlined view—no pages of irrelevant fields to scroll through.

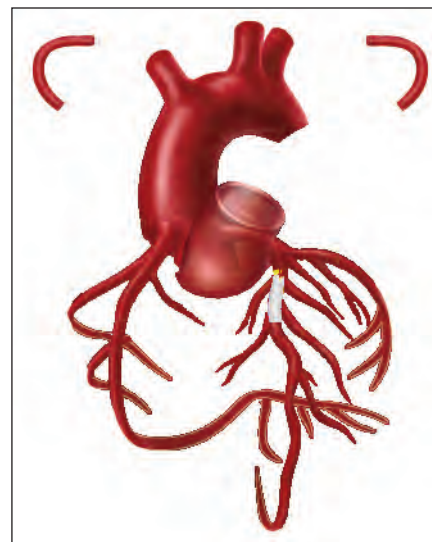


Patient Select Screen

- iii. The data entry forms are pre-populated with information acquired during patient registration and procedure, including hemodynamic findings and values.
- iv. The physician reviews data from the Coronary Anatomy Editor, making any changes needed and adding missing data.



Data Preview Screen



Coronary Anatomy Editor

- v. The physician can launch procedure images with **CardioPACS™** multi-modality imaging. Images can be pulled into CardioDoc—with just one click—for inclusion in the final report.
- vi. The physician uses **Smart Notes**, picklists and automatic scripts to document any additional findings, the summary and plan for the report. Smart Notes enable physicians to choose the procedure comments needed quickly. These comments then build the conclusions included in the report, saving significant time.
- vii. 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.

Catheterization Report

Patient Information
Name: **Thomas K Smith**
Medical Record #: 93022 Account Number: 93022
DOB: 1/20/1954 Gender: Male SSN: 94428828

Procedural Data
Date of Procedure: 12/10/2007 Cath Number: 3224
Diagnose (ICD-9-CM): 41.01 Pericarditis, NOS
Interventional Procedure: Percutaneous Coronary Intervention
Referring MD: Ronald Cohen, MD

Indications
Patient Status: Test Negative
ACC Procedure Code:
Left Main Procedure:
PCI Procedure:
Procedure(s):
Coronary Angiogram
Percutaneous Coronary Intervention

Procedure
Procedure(s):
Coronary Angiogram
Percutaneous Coronary Intervention

Fluoro Time: 82 minutes
Contrast: Amount: 100 ml
Total Contrast: 100 ml

Lesion Findings:
Left Main Pericarditis
There is a 75% stenosis in the proximal LAD. An intervention was performed on the proximal LAD with a 3.0 x 100 mm stent. There are no residual stenoses.

Additional Findings:

Interventional Device	Subst	Type	Name	Pre	Post	Max Presum
Proximal LAD	1.0	Stent	3.0 x 100 mm	75	0	10

Final Report

Benefits

Produce a Comprehensive Record at the Point of Care. Using interfaces to connect hemodynamic equipment, imaging systems and the hospital information system, CardioDoc pulls in all relevant data, greatly reducing manual data entry. User-friendly configurable tools allow hospitals to customize workflows to meet their own unique needs. Because CardioDoc documents data digitally, physicians and referring physicians have immediate access to the information they need to provide best-quality care.

Simplify Registry Participation and Outcomes Reporting. CardioDoc Cath aids data collection for the ACC PCI registry. All data is readily available for querying for statistics and outcomes reporting.

Help Elevate Follow-up Treatment Quality and Increase Referring Physician Satisfaction. Referring physicians receive the report just minutes after its completion, days faster than with transcription-based documentation. In addition, patient reports and images are accessible for review electronically, as well as via the hospital internet or intranet. Physicians can also review reports and images remotely by using **CardioChart™** web-enabled patient record. The quick turnaround time, accessibility and comprehensiveness of CardioDoc all help to ensure high-quality follow-up care, increase referring physician satisfaction and promote rapid treatment in case of emergency.

Eliminate Transcription Costs and Alleviate Supply Problems. CardioDoc replaces the transcription process with real-time report production and review, improving care, reducing cost and saving time. And because materials management and billing receive their data quicker, they can reorder supplies and start the billing cycle faster.

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.