



# Pre/Post Procedure

APOLLO ADVANCE CLINICAL MODULE

## Closing the Loop: Comprehensive Pre/Post Procedure Care Data

LUMEDX's new Pre/Post Procedure Care Unit (PPPCU) Module is a comprehensive solution to assist facilities in tracking and managing patient care before a procedure and/or surgery, as well as monitoring post-op care through discharge. Once data is collected, medical centers can use the information in patient reports, discharge instructions, outcomes analysis, quality improvement, and research studies. By using the PPPCU Module in combination with other Apollo Advance clinical modules, medical centers create a truly integrated information environment promoting efficiency, productivity, and supporting long-term clinical care goals.

### Capture Data in Your Normal Workflow

The PPPCU Module's workflow imitates the natural flow of pre/post procedure care. Typically for outpatient or same-day procedures, the patient will arrive in the unit prior to the scheduled procedure time. The clinicians perform a clinical assessment, entering data right into the PPPCU Module—vital signs, weight, comprehensive medical history, risk factors, medications, labs, assessment of pain levels, and more are captured. The clinician ensures consent forms are signed and can record where the patient's personal belongings are stored. In addition, any additional tasks the unit would like to record, such as pre-procedure medications, IV therapy, and research data can easily be recorded in customized fields. The patient then leaves PPPCU for their scheduled procedure and/or surgery. Please note, procedure information is documented in the corresponding module—i.e., if a patient is having a Cath procedure, it would be documented in the Catheterization Module—not the PPPCU Module.

Following the procedure, the patient returns to the PPPCU for post-op care and observation. The clinician monitors the patient closely and documents vital signs, pulses, pain levels, medications, and other post-operative care in the PPPCU Module. Once the patient has recovered and is ready for discharge, instructions can be entered in the module and a discharge report printed that can be given to the patient, as well as the visit report summary, medication and transfer reports.

### Speed Data Entry

The PPPCU Module has a variety of tools to speed data entry:

- *Tabs* organize data
- *Picklists* offer choices (care plans, etc.) that then populate related fields—save time and clicks
- *Look-up tables* list a standard set of diagnosis and goals. Once the diagnosis or goal is selected, the *Grids* with associated fields are automatically populated with pre-set data

Like all Apollo Advance Modules, PPPCU is highly customizable. Fields and tabs can be rearranged to support your site's particular workflow. All picklists, look-up tables, and grids can be set to match your typical uses. In addition, fields can be added to collect data specific to your clinical and operational goals.

### Highlights:

#### PRE-PROCEDURE ASSESSMENT

- Medications
- History
- Risk factors
- Surgical history
- Labs
- Consent
- Care plans/goals
- Research information

#### POST-PROCEDURE RECOVERY

- Medications
- Pain assessment
- Nurses notes
- Equipment used

#### DISCHARGE/TRANSFER

- Discharge instructions
- Patient transfer report
- Discharge medications
- Follow up physician appointment info

#### CLINICAL DATA USED

- Improve clinical outcomes
- Create patient care plans
- Outline patient discharge instructions
- Support research studies
- Track quality of care & determine benchmarks

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## Analytic Reports Provide Better Understanding of Care Unit Operations

The PPCU Module aggregates data elements per pre/post procedure and discharge and then provides ten standard reports for analysis. These reports examine the patient's mode of arrival to the unit, admissions to the unit by day or month, as well as length of stay for inpatients and outpatients. In addition, reports can track patient origin and disposition related to admissions and discharges. These reports provide a better understanding of the level of care provided to the patient as well as the unit's volumes and productivity.

## Collect Data & Produce Reports for Research Studies

PPPCU has three reports that can be valuable to sites conducting research studies. The Research Patient Alert Report, Research Screening Report, and Research Transfer Instruction Report are patient reports to be used to document care and outcomes. Analysis of the research program can be done through the Research Status Report by date or month.

## Tied to Apollo Advance Clinical Information System (CVIS)

Each clinical area has its own unique data collection and reporting requirements. To meet these requirements the Apollo Advance clinical data repository has specialized clinical modules, such as PPCU, which collect and store data specific to various procedures and specialties. These modules utilize custom forms and discrete data fields to collect granular procedural and outcomes data.

All data is consolidated in the centralized Apollo database, enabling medical centers to track patient outcomes, quality care indicators, and cost cutting efforts across service lines. In this way, Apollo streamlines workflow while ensuring comprehensive access to diagnostic and therapeutic clinical data in more than 30 sub-specialty areas of cardiology, vascular medicine, and disease management. Apollo enables you to more readily collect, manage, and analyze large volumes of patient data, helping you document the present and better plan for the future.

The screenshot shows the 'Pre-Procedure' form for patient 'Miller, Timothy (A1450)'. It includes fields for 'Pre-Procedure' (e.g., In and Out Chart, Consent on Chart) and 'Disposition of Medications' (table with columns: What, When, Given To, Comments). Other sections include 'Mobility', 'Allergies', 'Pain Assessment', and a 'Pain Management' table with columns: Location, Description, Frequency, Duration, What makes pain worse?, When is pain worst?, and What makes pain better?.

Patient Information - Pre-Procedure

The screenshot shows the 'Care Plan' form for patient 'Miller, Timothy (A1450)'. It includes sections for 'Pre-Procedure Care Plan' and 'Post-Procedure Care Plan'. The 'Pre-Procedure Care Plan' section contains text such as 'COMFORT ALTERNATION: PRNs' and 'PLAN: Patient verbal understanding of pain reduction measures to be used at home'. The 'Post-Procedure Care Plan' section contains text such as 'DISCHARGE PLAN: Patient significant other verbal understanding of prescription/home needs: Yes'.

Care Plan

The screenshot shows the 'Post Procedure/Equipment' form for patient 'Miller, Timothy (A1450)'. It includes sections for 'Demographic Information', 'Hemostatic Data', 'Hemostasis', and 'Equipment Used'. The 'Hemostatic Data' section includes fields for 'Time Held', 'Site Held', and 'Compression Device'. The 'Hemostasis' section includes fields for 'Location', 'Size', and 'Hemostasis Present'. The 'Equipment Used' section includes a table with columns: Item, Cost, Charge, Quantity, and Serial Number.

Post Procedure/Equipment

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**Miller, Timothy [A1450] - [Pre-Post Procedure Care Unit]**

View Edit Add-Ins Reports Help

General & Pre-Procedure Info

Pre-Post Proc Care Medication Report

**Navigation**

Records | Fields | Validation |

By Event

Miller, Timothy [A1450]

Pre-Post Procedure Care Unit

3/13/2006

Laboratory Tests

Medications

History

**Auto Entry**

Run

**Picklist: [Nursing Diagnosis]**

Run

Note

- Knowledge Deficit Diabetes
- Alteration in Thought Processes
- Knowledge Deficit - R/T AICD
- Age Specific/Geriatric Over Age 65
- Knowledge Deficit Permanent Pacemaker
- Comfort Alteration - Pain
- Knowledge Deficit R/T CAD
- Anxiety
- Age Specific/Adult Ages 18-65

**Discharge Instructions**

Date: 3/13/2006 Time: 7:00:00 PM Discharge Diagnosis: CAD

Primary Caregiver: Spouse Transfer Report Given to: Cynthia Adams, RN

**Discharged To:**

Home relative/self care  In house Room #:   Left against medical advice  Nursing Home

Transfer to outside facility  Other Specify:

**Discharged via:**

Ambulatory  Wheelchair  Stretcher Accompanied By:

**Personal Belongings Returned:**

None  Valuables  Glasses  Dentures  Medications  Other Specify:

**Discharge Instructions Given To:**

Patient  Patient and Family  Other Specify:   Seen by MD prior to discharge

Appropriate community resources, support groups, etc, info given  Medical Device ID card given to pt.

Tobacco cessation counseling  Daily weight monitoring with recording of daily weights

For next appointment or for problems call Dr.: Tim Altman Phone Number: 206-888-7777 Appointment Date: 3/31/2006 Time: 9:00:00 AM

Discharge Instructions

**About LUMEDX:** With over 350 heart center clients worldwide, LUMEDX is the market leader in fully integrated cardiovascular information 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.