

Diabetes Management

APOLLO ADVANCE CLINICAL MODULE

Today's Business Challenge: \$2.5 Billion Annual Cost of Diabetes Complications

Research shows that diabetes management practices are important in improving both the overall quality of patient care and in reducing the diabetes-related complications that cost the U.S. upwards of \$2.5 billion annually. Yet studies also suggest that a majority of the 18 million Americans with diabetes do not receive the optimal care processes established by the American Diabetes Association (ADA). Subsequently, patients' self-care and disease management may falter, leading to less than ideal home-glucose monitoring, nutrition, and poor disease management. As a result, these patients face greater incidence of many micro- and macrovascular complications, including cardiovascular and peripheral vascular disease. These incidents result in costly complications downstream in the medical center's cardiology and vascular departments: longer lengths of stay following treatment, increased morbidity, and other complications increase the cost burden placed on the medical center. To reduce these complications medical centers need to more effectively manage diabetes on the frontline, and in turn effectively track the impact this care has on their cardiology and vascular outcomes, complications, and costs.

The Solution: Diabetes Module Seamlessly Links Disease Management to Cardiology and Vascular Outcomes

The Diabetes Module for Apollo Advance clinical data repository is a tool to help diabetes departments track patient data, demographics, and outcomes, as well as monitor the effectiveness of education programs and disease management. With Apollo, this diabetes data is linked to other data within the medical center's Apollo Advance database.

By integrating data across departments, medical centers have unprecedented insight into the critical impact that diabetes disease management can have on complications, patient care, and costs across the hospital service lines. The Diabetes Module also collects ADA recognition data elements.

Easily Track Clinical Data at Your Outpatient Diabetes Program

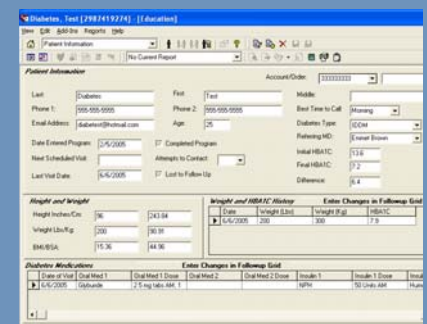
The Diabetes Module makes it easy to collect and manage patient information. The Module collects information specific to diabetes in the Apollo Advance database. Access to all patient and clinical information is centralized on your desktop, with patient history, lab values, treatment plans, and education integrated. An interface to your hospital information system automates information flow by collecting demographic information from your ADT system (Cerner, Epic, or other vendor's system) and populating it

The Apollo Difference:

More Interfaces

More Modules

Total Integration of Information



Contact sales@lumedx.com for more information about Apollo Advance Modules



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into Apollo. By auto-populating this data, you eliminate time spent on redundant data entry, and reduce errors associated with manual data entry.

The Diabetes Module speeds data entry at the point of care. With just a few screens, this streamlined Module collects data key for disease management and data analysis. The Module can also be customized with Apollo Toolkit to collect additional data elements.

Patient information collected:

- Demographics
- Medical History
- Physical exam
- Medications
- Laboratory results
- Treatment and follow-up
- Identification of at-risk patients
- Education
- Primary and secondary prevention measures prescribed:
 - Exercise
 - Nutrition
 - Body composition
 - Patient goals
 - Patient adherence to program

Diabetes, Cardiology & Vascular Data Seamlessly Connected

Close control of diabetes contributes to improved cardiac outcomes, including longer survival and reduced restenosis following coronary intervention. That's why your diabetes data is aggregated and stored with your cardiovascular clinical data. By linking these two distinct data sets, you can better understand the impact diabetes education and disease management have on your cardiovascular outcomes, complications, and lengths of stay. For example, for patients undergoing cardiac treatment, physicians can review the patient's diabetes treatment and work with the endocrinologist and

Patient Information			
Last:	Diabetes	First:	Test
Phone 1:	555-555-5555	Phone 2:	555-555-5555
Email Address:	diabetest@hotmail.com	Age:	25
Date Entered Program:	2/5/2005	Completed Program:	<input checked="" type="checkbox"/>
Next Scheduled Visit:		Attempts to Contact:	
Last Visit Date:	6/6/2005	Lost to Follow Up:	<input checked="" type="checkbox"/>

Height and Weight	
Height Inches/Cm:	96 / 243.84
Weight Lbs/Kg:	200 / 90.91
BMI/BSA:	15.36 / 44.96

Weight and HBA1C History			
Date	Weight (Lbs)	Weight (Kg)	HBA1C
6/6/2005	200	300	7.9

Diabetes Medications						
Date of Visit	Oral Med 1	Oral Med 1 Dose	Oral Med 2	Oral Med 2 Dose	Insulin 1	Insulin 1 Dose
6/6/2005	Glyburide	2.5 mg tabs AM			NPH	50 Units AM

Apollo Advance Diabetes Module: Patient Information Screen

Diabetes Program Assessment			
Pre Program Date	Pre Program Initals	Post Program Date	Post Program Initals
2/6/2005		6/1/0605	J Smith

Learning Objectives					
Date	CDE	Met Verbalize Goal	Date	CDE	Met Behavior Goal
2/5/2005	J Smith	No	2/5/2005	J Smith	Yes

Apollo Advance Diabetes Module: Objectives Screen

Assessment	
Clinician	J Smith
Assessing Patient:	J Smith
Content Area:	Understands diabetes disease process
Pre Program Level of Understanding:	1
Pre Program Assessment Date:	2/6/2005
Date Taught:	4/5/2005
Taught By:	J Smith
Post Program Level of Understanding:	2
Post Program Assessment Date:	6/1/0605

Level of Understanding Code:
NA: Not Applicable
1: not doing or no prior instruction
2: doing activity but not observed or not yet fully integrated into lifestyle
3: independent at skill and fully integrated into lifestyle

Apollo Advance Diabetes Module: Assessment Screen

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diabetes nurse educator to reduce any modifiable risk factors. Together, the caregivers can make certain patients have received appropriate disease management training for optimal conditions *before* and *after* cardiac treatment.

Reports Track Impact of Diabetes Across Departments

The Diabetes Module contains distinct data fields, which can be queried for reports. In addition, the Module comes with several standard reports, including:

Patient Care Reports

- Program Assessment
- Making Changes
- Learning Objectives

Comprehensive Reporting & Outcomes Management

- Patient enrollment statistics
- Patients with high risk cardiac profiles
- Aggregate data for multi-site facilities

Participate in Pay-for-Performance Programs

The Diabetes Module also enables users to effectively track data needed to participate in pay-for-performance programs. Such programs, which typically reward superior preventative health care efforts, ensure caregivers take extra measures to help patients manage their diabetes. By rewarding preventive care efforts, these programs hope to reduce the long-term costs of complications, emergency room trips, and hospital stays.

Diabetes Scheduling Management

The Diabetes Module can be used with CardioSchedule™ to easily and efficiently manage your department and patient scheduling. CardioSchedule is an easy-to-use electronic scheduler designed for clinical departments. CardioSchedule

Objectives - [Edu Objectives]

Objectives

Date of Objective: 2/5/2005 CDE Evaluating: J Smith

Goal: To be able to verbalize the following: What my blood sugar is

Above Goal Met?

Plan to Meet Above Goal: Test frequently

Date of Behavior Goal: 2/5/2005 CDE Evaluating: J Smith

Goal: To Change the Following Behavior: Determine level of blood sugar control by testing BS at least 3x per week and making adjustments as needed to improve BS control.

Above Goal Met?

Plan to Meet Above Goal:

New Close

Apollo Advance Diabetes Module: Objectives Screen

Diabetes, Test [2987419274] - [Education]

View Edit Add-Ins Reports Help

Objectives: Making Changes, and Follow Up

No Current Report

Goals - Making Changes Double click on grid to enter information

Date	CDE	Class	Goal	Activity to Achieve Goal	Achievement Level
6/6/2005	J Smith	Understanding Diabetes	Improve blood sugars	Test frequently	Most

Follow Up Double click on grid to enter information

Visit Date	Assessed By	Acceptance Level	Follow Up Visit Scheduled?	Instructed to Call with Questions?
6/6/2005	Janet Smith	Some of the time	Yes	Yes

New Close

Apollo Advance Diabetes Module: Goals & Follow Up Screen

Making Changes - [Edu Change]

Making Changes

Date: 6/6/2005

Clinician Assessing Patient: J Smith

Class: Understanding Diab

Goal Statement: Improve blood sugars, Goal Range: 110-140

Activity to Achieve Goal: Test frequently

Achievement Level: Most of the time

Comments - What worked, what didn't:

Lost test kit, did not replace for several weeks.

New Close

Apollo Advance Diabetes Module: Making Changes Screen

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can be accessed remotely, so off-site clinics and physicians can view their schedule and request appointments. In addition, CardioSchedule can help sites schedule follow-up appointments and track phone calls reminding patients of follow-up treatment (a requirement of some pay-for-performance programs).

LUMEDX: Leader in Clinical Data Integration

LUMEDX is the leader in integrating clinical data across the cardiology and vascular service lines, helping medical centers improve patient care and clinical outcomes as well as operations and cost management. By seamlessly connecting clinical data from cardiology, vascular, and diabetes care, LUMEDX brings these departments together, enabling medical centers to understand fully and plan for the widespread impact of diabetes and chronic disease management.

Apollo Advance Diabetes Module: Follow Up to Education Screen

CardioSchedule: Real-Time Patient & Resource Scheduling

About LUMEDX: With over 500 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.

CardioStar SUITE OF CARDIOVASCULAR DATA INTEGRATION SOLUTIONS

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