



# INFOSPHERE

MU HEALTH SCIENCES COMMUNITY

## Patient Centered Care Online Software Purchased

Last July, the Health Sciences Center formed a partnership with the Cerner and IDX corporations and First Consulting Group to jointly develop and implement Patient Centered Care Online, a new enterprise-wide clinical and financial software system. The work of the partnership continues in an effort to provide a more coordinated and proactive health management information system at the Health Sciences Center. The new delivery model focuses specifically on primary care and managing health; ambulatory and office-based care; care management across the continuum of care; capitated payment for many services; collaborative, interdisciplinary patient-care teams; and best practices for medical management. The following provides a description of the software purchased from Cerner and IDX and the pilot sites selected to implement the software.

**"ADT/EPMS"** (Admit Discharge Transfer/Enterprise-wide Person Management System), a product of IDX, is software that creates a master person index for the identification of patients within the integrated delivery network. This system includes key demographic information about our patients and keeps a summary of visits to all health providers and facilities within the integrated delivery network. Pilot site: Ellis Fischel.

**"CareNet"/Orders Management**, a product of Cerner, is an application that will provide care providers and medical staff the ability to perform order entry, order review and/or validation, interdepartmental communication, cost assignment, order inquiry and reporting. Pilot site: Inpatient units at Ellis Fischel.

**"HPA/EVMS"** (Hospital Patient Accounting/Enterprise Visit Management

System) Patient Finance, a product of IDX, provides a common registration system for integrating outpatient and hospital registration and visit information. This includes admission, discharge and transfer information for inpatients. Detailed patient demographics and insurance information collected at one service site will be available to all other service sites throughout the organization. Features of the application include the capability for a single patient statement, automated patient representatives work queues to improve efficiency and hold bill/claim capability to aid in collecting vital claims-related information. This will reduce claim form rejections and allow faster claim submission. The system will receive charge transactions electronically from the CareNet system for billing and claim generation. Pilot site: Ellis Fischel.

**"IDXtend" Windows for IDX** is the graphical user interface to the current IDX system, bringing Windows to registration and scheduling applications. It is designed around front desk work flows, enabling the end user to check patients in and out more efficiently. Pilot sites: the Pediatric/Adolescent Specialty, Dermatology and Cutaneous Micrographic Surgery Clinics.

**"OCF (Open Clinical Foundation)/PowerChart" Results Reporting**, a product of Cerner, is an enterprise-wide multimedia database that contains all the information captured in the various clinical and core software systems. It will be used to form the basis

for the electronic health-care record. It includes clinical workstation applications that allow clinicians to view patient results and information supporting clinical decision making and health planning. Pilot sites: 4 West of University Hospital and Clinics, and Medical and Surgical Oncology of Ellis Fischel.

*Caring* 2000  
Patient Centered Care Online

**"ProFile" Medical Records**, a product of Cerner, automates the chart management process. Profile works with OCF to support the use of electronic media-based health records. This is part of the replacement for IBM's Patient Care System at UHC. Medical Records at Ellis Fischel is not currently automated. Pilot site: Medical Records at Ellis Fischel.

**"ProVide" Ambulatory Clinic**, a product of Cerner, automates both clinical and management processes within the clinics. This application includes structured documentation, preventive care reminders, tracing an individual by a specific medical problem over time and sending electronic referrals via encryption methods to other members of the provider network. The system supports the creation and monitoring of health-care delivery based on general and specific patient outcome guidelines. Pilot sites: Family Practice Clinic at Green Meadows (Gold Team), and General/Vascular Surgery Clinics for adult and child patients.

# Implementation Date for Pilot Project is Accelerated



On Thursday, February 5, Patsy Hart, Mike Philips, Joyce Mitchell and Steve Reeves addressed the PCCO Work Groups to announce an acceleration of the implementation of the pilot for HPA/ADT/ProFile and

Orders at Ellis Fischel Cancer Center. The accelerated date is November 1998.

The decision was made in consideration of Year 2000 implications, earlier replacement of the Citations system and additional time to address issues discovered during the pilot project implementation at University Hospital.

Mitchell indicated a revised plan is being prepared with the assistance of Cerner, IDX and FCG, and that all entities have committed to do whatever it takes to shorten the target date to November 1998.

Hart and Philips expressed confidence in the teams and conveyed the gratitude of the Executive Leadership Group for the tremendous amount of effort and progress already being made by the PCCO Team members.

## PCCO Accomplishments to Date

Last July, the Health Sciences Center formerly kicked off the implementation of the PCCO project. It is three months into the year 1998; we wanted to share with you the accomplishments to date.

- Seven workgroups formed and active.
- Twelve software packages purchased.
- Pilot sites selected for initial software implementation.
- The implementation date moved up to November 1998 from the first half of 1999 on some parts of the project.
- The project is on-time.

## Local Mirror Site for Clinical Pharmacology Online Operational



Clinical Pharmacology Online is now available through a local mirror Web site. This product is an online, Web-based resource containing information about drugs and pharmaceuticals commonly used in medical practice. These are provided in the form of full-text monographs. The information is derived from the CD-ROM product produced by Gold Standard Media, Inc.

Information about investigational, less common, combination, nutraceutical and nutritional products is also available.

This is provided in the form of 'mini' monographs which provide such information as is available.

By providing a mirror site located on the Health Sciences campus, we can offer quicker, more reliable access to this information.

The local database will reflect updates at the corporate site as quickly as they are made available, typically within about three working days. The corporate site is updated quarterly.

The URL is <http://www.hsc.missouri.edu/~cponline/>.

## Noon Seminar Series

The Tuesday Noon Seminar Series continues in Room GL-03-11 from 12:00-1:00 p.m. on the ground level of University Hospital.

### March 3

Spring Break

### March 10

James Andrews

Medical Informatics Fellow

*A Catalog Record Structure to Support Organizational Workflow*

### March 17

Robert Herting, MD

Medical Informatics Fellow

### March 24

Allan Roth, PhD

Medical Informatics Fellow

*Medical Application Development of Palm-top Computers: A Case Report*

### March 31

Jeremiah Sable, MD

Medical Informatics Fellow

*Clinical Pathways: A New Challenge for Informatics*

Queries may be directed to the series director, **Dr. John C. Reid**, at **882-8428**. The latest version of the 1997-98 seminar series schedule is available online at <http://www.hsc.missouri.edu/mig/docs/noon97-8.html>.

## Editorial Staff

**Linda Cooperstock**, Manager, Planning and Coordination; **Alan Arnold**, LAN Manager, Internal Medicine; **Karon Apple**, Senior Information Specialist, ITS; **Rebecca S. Graves**, Information Services Librarian, J. Otto Lottes Health Sciences Library; **Lamar Henderson**, Senior Information Specialist, ITS; **Debra Wheeler**, Information Specialist, ITS.

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## Electronic Journals Available From the Health Sciences Library



Increasingly, publishers are putting their scientific journals up on the web. Some of these are free. Others either require a paid subscription or offer a few articles free and charge for the rest. Some of the sites offer full text for the past year or so, while others only offer tables of contents and article abstracts. In addition, these journals are scattered across web sites. The J. Otto Lottes Health Sciences Library currently provides convenient access to the full text of over 55 electronic journals. The majority of these provide full text for all of the articles online.

To access the journals, pull up Netscape on your computer and go to the Library's web page at [www.hsc.missouri.edu/library](http://www.hsc.missouri.edu/library). Click on the "Library Resources." Choose "Locally Available Electronic Journals" which will take you to an alphabetical list of the journals as well as link you to additional e-journal pages and information on citing electronic resources.

Note that to access some of the journals, such as Online Journal of

Knowledge Synthesis for Nursing, you will need to have Adobe Acrobat software installed on your computer. Adobe Acrobat files can be recognized by their ".PDF" file name extension. Adobe Acrobat may be downloaded for free from the following web site: [www.adobe.com](http://www.adobe.com). Choose "Free Plug-ins & Updates," and then choose Adobe from the chart.

The "Current Opinions" series contains 6 titles under the heading of "Biology" and 23 under the heading of "Medicine." To get to a specific journal, click on the desired title. This will bring up OCLC/FirstSearch Electronic Collections Online, with a listing of the journal issues in the frame on the right. You may browse the journal by issue or click on "Search" to find all of the articles on a specific subject. Note that the full text is not searchable. However, you may search by other fields such as title, subject, author, or publication year.

Journals marked with the Ovid icon are from the Core Biomedical Collection (CBC.) The 15 journals in this collection provide articles back to 1993 and are linked into MEDLINE, meaning that you

can move seamlessly from MEDLINE citations to full text. Within the CBC, every word of the text is searchable, including references and graphics captions. Within the Full Text display, hypertext features allow you to display and move within an outline of the document and also to move immediately to references cited within the text. Clicking on one of these titles in the alphabetic list will take you to the Core Biomedical Collection link which in turn takes you to the Ovid logon screen.

If you have any questions, or would like to recommend an electronic journal for subscription, please call us at **882-6141** or send a request from our website: [www.hsc.missouri.edu/library](http://www.hsc.missouri.edu/library).

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## Please Welcome...

### Scott Caplan, Interim Associate CIO, Health Sciences Center

Scott comes to us from the East Coast, outside Philadelphia. His career began following receipt of a B.S. in Computer Science with a minor in Business Administration from the University of Delaware. From 1979 through 1991, Scott worked for Shared Medical Systems (SMS) which, at that time, was the largest healthcare vendor in the world. He rose from programming the ADT Registration, Patient Accounting, Financial and clinical order entry systems to assume project leadership and management of a variety of groups. Specifically, Scott managed the Independence Group, which installed operating systems, CICS, software applications, and online processes at hospitals throughout the country. In addition, he managed the development and rewrite of the bill forms, Electronic Data Interchange, and Data Warehouse projects at SMS.

In 1991 Scott joined the Medical Center of Delaware as an ITS Manager, responsible for the ADT, Registration, Patient Accounting, Contract Management, Managed Care, Physician Billing and Document Imaging areas. The Medical Center of Delaware (now named Christiana Care Health System), is comprised of three hospitals, 12 satellite physician practices, ten clinics, a Wellness Center, Home Health (Visiting Nurse Associa-

tion of Delaware), Skilled Nursing, Long Term Care and a multitude of ancillary entities (such as Imaging Centers). The network at the Medical Center of Delaware supports over 5,000 workstations and 800 printers, with T3 and T1 lines throughout the Delaware area as well as in the surrounding states Pennsylvania and Maryland.

In 1994, Scott was asked to assume additional full responsibility for the Information Services Strategic Plan, and directed Information Services to evaluate, select and implement enterprise systems. Some of the systems that he implemented include the HBOC Global Master Patient Index System, the Cerner Open Clinical Foundation, the Lan Vision Electronic Medical Record, the MedicaLogic Ambulatory Care System, an inhouse Data Warehouse, a network upgrade to Microsoft NT and the Picis bedside Critical Care system in the MICU, along with leading the year 2000 project. Scott joins us on an interim basis from the First Consulting Group, and can be reached at 882-8719 or by e-mail, and is housed at the Rock Quarry in office Q162.

Welcome, Scott, and congratulations on your new position with ITS.

**Project  
Timeline**

**First Half of 1998**

- Power Chart Results Retrieval Pilots

**Second Half of 1998**

- Windows for IDX Pilots
- Care-Net MedicalOrders Management
- ProFile Medical Records
- HPA/EVMS Patient Finance
- ADT/EPMS Patient Management

**First Half of 1999**

- Ambulatory Clinic Pilots
- OMF ProLog Management Analysis
- PCS and Citation Shutdown
- Expert Clinical Decision Support Pilots
- PCS and Citation Shutdown

**Second Half of 1999**

- Ambulatory Clinic Rollout
- Windows for IDX Rollout
- CareNet Documentation Pilots
- CareNet Critical Paths Pilots
- Enterprise Scheduling Pilots
- Planning Begins for Optional Products: Radiology, Pharmacy, Emergency Room, Materials Management, Pathology

**First Half of 2000**

- CareNet Documentation Rollout
- CareNet Critical Paths Rollout
- Expert Decision Support Rollout
- Enterprise Scheduling Rollout
- Ambulatory Clinic Rollout
- Project Starts for Optional Projects

**MedLine/CINAHL/  
PsycINFO  
Workshop  
Schedule**

**March**

Medline	10-11:30 Wednesday 11
CINAHL	10-11:30 Tuesday 24
PsycINFO	3:30-5 Monday 30

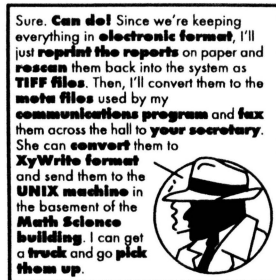
**April**

Medline	3:30-5 Tuesday 7
CINAHL	10-11:30 Wednesday 15
PsycINFO	10-11:30 Tuesday 28

**May**

Medline	3:30-5 Monday 4
CINAHL	3:30-5 Wednesday 6
PsycINFO	10-11:30 Tuesday 19

**Jack Hammer, Network Detective** by Alan Arnold



You can search journal literature on the OVID system using Windows or Web. These workshops focus on Windows; you may request Web instructions. Enrollment is limited to eight each. Special dates available. Call **882-6141** or go to <http://www.hsc.missouri.edu/library/docs/wsreg.html> to register or for more information.

Margaret Howell  
Special Collections  
401 Ellis Library