

Understanding EHRs: Common Features and Strategic Approaches for Medicaid/SCHIP

Presented by:

Karen M. Bell – MD, MMS, Director, HIT Adoption

W. David Patterson – PhD, Deputy Chief, Health and Demographics
South Carolina Office of Research and Statistics

Overview

- **Welcome** – Erin M. Grace, MHA, Senior Manager, Health IT, Agency for Healthcare Research and Quality (AHRQ)/National Resource Center
- **Before We Begin** – Erin M. Grace, MHA
- **Introductions**
- **Presentations**
 - ***EHRs: 2008***
 - Presented by Karen M. Bell, MD, MMS, Director, HIT Adoption
 - ***Electronic Health Records and Health Information Exchange in South Carolina***
 - Presented by W. David Patterson, PhD, Deputy Chief, Health and Demographics, South Carolina Office of Research and Statistics
- **Question and Answer** – Erin M. Grace, MHA
- **Closing Remarks** – Erin M. Grace, MHA

Before we begin...

- Please note all participants were muted as they joined the Webinar.
- If you wish to be un-muted, choose the “raise hand” option to notify the host.
- If you have a question during the presentation, please send your question to *all participants* through the chat. At the end of the presentation, there will be a question and answer period.
- If you would like a copy of the presentation slides please e-mail nbuchholz@rti.org

■ Listserv Registration

- Please register for the listserv to receive announcements about program updates
- To register go to <http://healthit.ahrq.gov/Medicaid-SCHIP>
- Click on “Medicaid-SCHIP Fast Facts” on the left-hand side of the screen
- There are two ways to register for the listserv:
 - 1. Click the link “[Click here to subscribe to the listserv](#)” which will open a pre-filled e-mail message, enter your name after the text in the body of the message and send.
 - 2. Send an e-mail message to: listserv@list.ahrq.gov.
On the subject line, type: **Subscribe**.
In the body of the message type: **sub Medicaid-SCHIP-HIT** and **your full name**. For example: sub Medicaid-SCHIP-HIT John Doe.
You will receive a message asking you to confirm your intent to sign up.



EHRs: 2008

Presented by:

Karen M. Bell, MD, MMS Director, HIT Adoption



HIT: A National Vision

- Appropriate and immediate access to secure and reliable comprehensive health information by appropriately authorized parties to
- coordinate safer, more effective and timely patient care among providers
 - allow clinicians to communicate with and care for patients, wherever they may be
 - enable individuals to better manage their own health
 - support community health efforts through public health, emergency response, and enhanced research opportunities



HIT Vision: Key Components

- EHRs – a record where providers create, import, store, and use comprehensive clinical information for patient care; can include use of “patient portals” to enhance communication; provider controlled
- PHRs – a record where individuals create, import, store, and use comprehensive clinical information to support their own health; patient controlled
- Health Information Exchange – the electronic movement of health-related data and information among specific providers, patients, and other entities according to agreed upon protocols
- National Health Information Network -- standards and specifications which allow health-related data and information to be shared securely and reliably among any authorized parties and entities



Current State EHR Adoption: US Physicians, 2007

- Range up to 28% using some functions
- 14% with electronic note keeping, lab and med orders, and ability to obtain lab results
- 7% of solo physicians
- 28%, 11 or more physicians in practice
- 3X more prevalent in metropolitan areas



Current State EHR Adoption: Hospitals 2007

- 68% with full or partial adoption
- 11% with fully implemented EHRs
- Size matters: 3% (<50 beds) to 23% (>500 beds)
- Full implementation does not represent physician use (fourth of implemented hospitals report 50% MD use.)



CCHIT Certified EHRs

- Founded in 2005
- Multi-stakeholder public/private partnership with a public process
- Criteria for functionality, security, and interoperability (accepted by Secretary, DHHS)
- First ambulatory EHR products certified 2006
- Currently covers 75 to 80% of installed market
- Over 25% of ambulatory EHRs now in use have been certified
- Ongoing process: new functionalities, new interoperability standards, specialty EHRs, new settings, PHRs, interoperable networks



Charges to AHIC Workgroups

- EHR Workgroup: Make recommendations to the Community on ways to achieve widespread adoption of certified EHRs, minimizing gaps in adoption among providers.
- Consumer Empowerment: Make recommendations to the Community to gain widespread adoption of a personal health record that is easy to use, portable, longitudinal, affordable, and consumer-centered.



Areas of Focus

- Business Case
- Technical Considerations
- Privacy and Security Concerns
- Medical Legal Issues
- Organizational/Cultural Issues (Workflow, Workforce, Public Expectations, etc.)



Business Case: Barriers

- Physician office average cost: \$20,000/user of software, installation, loss of productivity – hardware additional
- Recent findings suggest no financial ROI to physician providers in today's environment
- ROI accrues to payers of health care



Business Case: Enablers

- Certification of products, decreased risk of failed investment
- Stark amendment and anti-kickback relief allowing hospital donations to physicians
- HRSA grants to rural and community-based federally qualified health centers
- Malpractice fee credits
- Selected private and public (CMS demonstration project) insurer incentives based on adoption and effective use of EHR functions, leading to improved performance on specified metrics



Technology: Barriers

- Usability and functionality
- Automation of paper processes
- Lack of interoperability (cost of interfaces with multiple other providers -- labs, hospitals, radiology centers, etc.)
- Updates and enhancements



Technology: Enablers

- Improved data organization; clinical supports; decreased administrative burden; enhanced administrative functions (e-scheduling)
- Harmonized interoperability standards prioritized for key clinical data
- Development of Health Information Exchange organizations
- Quality reporting -- both internal to practice and for added reimbursement



Privacy and Security Concerns

- Control of information and flow
- Consequences of breach (loss of insurance, work, or other forms of discrimination)
- Secondary uses of data
- Genomic and family history affect family members



Privacy and Security: Work in Progress

- Authorization; Authentication
- Patient Identity Proofing and Linkage
- Principles and Policies for Secondary Uses of Information
- Protection from Discrimination Based on Genetic Information (GINA)
- Health Information Portability and Accountability Act
- Principles, Policies, Procedures, and Protections for all forms of electronic health information use and exchange



Organizational Concerns

- Limited Workforce (development, implementation, use, research)
- Leadership
- Staff redeployment
- “Legal” EHRs and liability
- Redefined patient/clinician roles



The (not too distant) Future

- Expanded interoperability
- Patient access to clinical information
- Pre-populated EHRs and PHRs
- Point-to-point information exchange
- Multi-stakeholder Health Information Exchange

Electronic Health Records and Health Information Exchange in South Carolina

Presented by:

W. David Patterson, PhD, Deputy Chief, Health and
Demographics, SC Office of Research and Statistics



Overarching Themes

- Electronic Health Records versus Electronic Medical Records
- The role of Health Information Exchanges in creating an EHR
- The utility of claims records



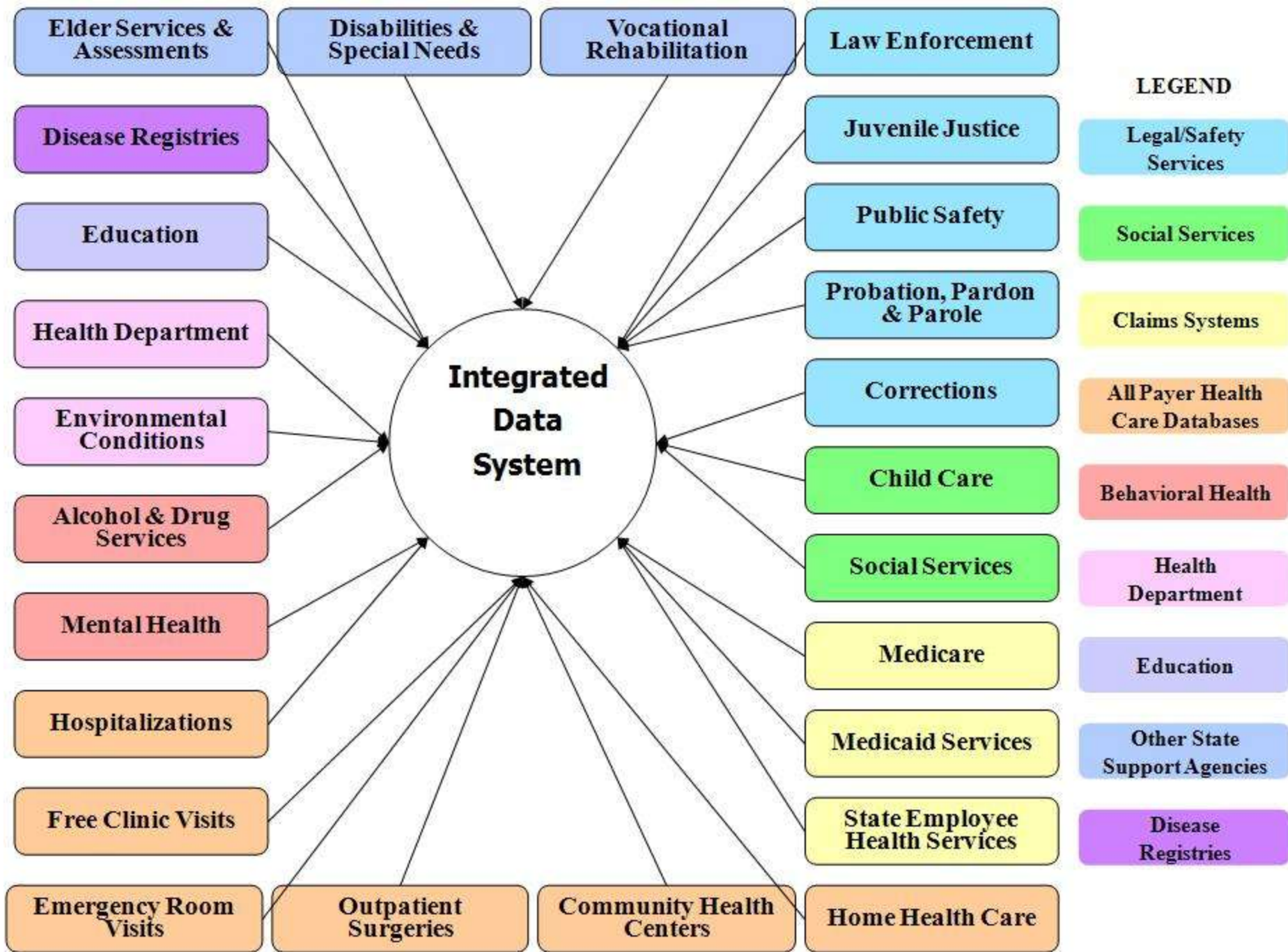
South Carolina Office of Research and Statistics

- SC Budget and Control Board, Office of Research & Statistics is a Service Agency in South Carolina
- Neutral, no programmatic responsibilities
- Statistical and Research focused
- Experienced in gathering, integrating, and disseminating data



SC Data Warehouse

- Build off of existing systems (legacy systems from state agencies and private sector)
- Create a Unique ID (not related to any other number)
- Identifiers are pulled off of the statistical data. Use only the statistical data
- Data is always “owned” by the originating agency. Must have permissions to use and/or link any data





HIE Precursors Developed by ORS

The Medicaid EPHR System
Version 1.0



DOE, JOHN
May 15, 1985 (21)
Medicaid ID: 123456789

898838-09
NPI: ORS8950
Provider: CMS USER

[Logout](#)

Dashboard | **Inpatient (29)** | **Emergency Room (93)** | **Dental (0)** | **Medications (41)** | **State Agencies (0)** | **Notes (0)**

Diagnoses Past 12 Months

- 09/01/2006 - 71945 JOINT PAIN-PELVIS (1)
- 07/22/2006 - 78703 VOMITING ALONE (9)
- 07/19/2006 - 2859 ANEMIA NOS (2)
- 06/19/2006 - 462 ACUTE PHARYNGITIS (1)
- 06/11/2006 - 986 TOX EFF CARBON MONOXIDE (1)
- 06/04/2006 - 490 BRONCHITIS NOS (2)
- 06/23/2006 - 28269 SICKLE-CELL ANEMIA NEC (21)
- 05/17/2006 - 5990 URIN TRACT INFECTION NOS (2)
- 07/22/2006 - 7862 COUGH (9)
- 06/23/2006 - 78099 78099 (15)

Eligibility Information

System down for maintenance!

Postings / Notes

No Postings / Notes

Medications

- 08/29/2006 - MORPHINE SULFATE IR 30 MG TB (2)
- 08/29/2006 - PROMETHAZINE 25 MG TABLET (1)
- 07/07/2006 - MORPHINE SULF 15 MG TABLET CR (1)
- 06/23/2006 - OXYCODONE W/APAP 5/325 TAB (1)
- 06/19/2006 - AZITHROMYCIN 250 MG TABLET (1)
- 06/16/2006 - ALBUTEROL 90 MCG INHALER (1)
- 06/06/2006 - METHADONE HCL 5 MG TABLET (1)
- 05/18/2006 - POTASSIUM CL 20 MEQ TAB SA (1)
- 05/18/2006 - AVELOX 400 MG TABLET (1)
- 08/31/2006 - EXJADE 500 MG TABLET (3)

Clinical Procedures

- 04/18/2006 - 82728 FERRITIN (1)
- 04/05/2006 - 36415 COLLECTION OF VENOUS BLOOD/VENIPUNCTURE (1)
- 04/04/2006 - Q9950 LO OSM CONTR MTRL,350-399MG/ML IODINE,ML (1)
- 04/24/2006 - 99284 E/M EMERGENCY DEPARTMENT SERV LEVEL 4 (3)
- 03/22/2006 - 92083 VISUAL FLD W/DIAG EVAL EXTEND EXAM,3+ISO (1)
- 03/10/2006 - 99223 E/M IP SERV INITIAL HOSP CARE LEVEL 3 (1)
- 03/24/2006 - 99222 E/M IP SERV INITIAL HOSP CARE LEVEL 2 (4)
- 03/01/2006 - C8951 IV INFUS, THERAPY/DIAGNOSIS, EA ADD'L HOUR (1)
- 02/07/2006 - 3893 VENOUS CATH NEC (1)
- 01/15/2006 - 71020 RADIOLOGIC EXAM CHEST TWO VIEWS FRON/LAT (1)



HIE HeadStart

■ Who

- Technology Background and Principals involved
 - AccessNET Consortium
 - ORS, SC Budget and Control Board, South Carolina
 - CareEvolution Inc.

■ How

- Leverage the existing Data Warehouse
- Partnerships in Funding and Development



HIE HeadStart

Phase I leverages administrative claims data warehoused at the SC Office of Research and Statistics (ORS) to establish a Record Locator Service (RLS) for the region as well as longitudinal record for over 4 million residents of the state. Specifically, the data will include

- all Medicaid (including pharmacy and physician office visits)
- UB-92 inpatient, ambulatory surgery and ED claims

As such, this warehouse will provide a nearly comprehensive record of all providers who have served a given patient or client since 1996

- Diagnoses
- Procedures
- Prescription History

Platform allows inclusion of data from other sources such as:

- Clinical data from provider EMRs
- Reference labs
- Department of Health and Environmental Control (DHEC)



Guiding Principles For Our Current Solution

Connecting for Health Model – National Leader

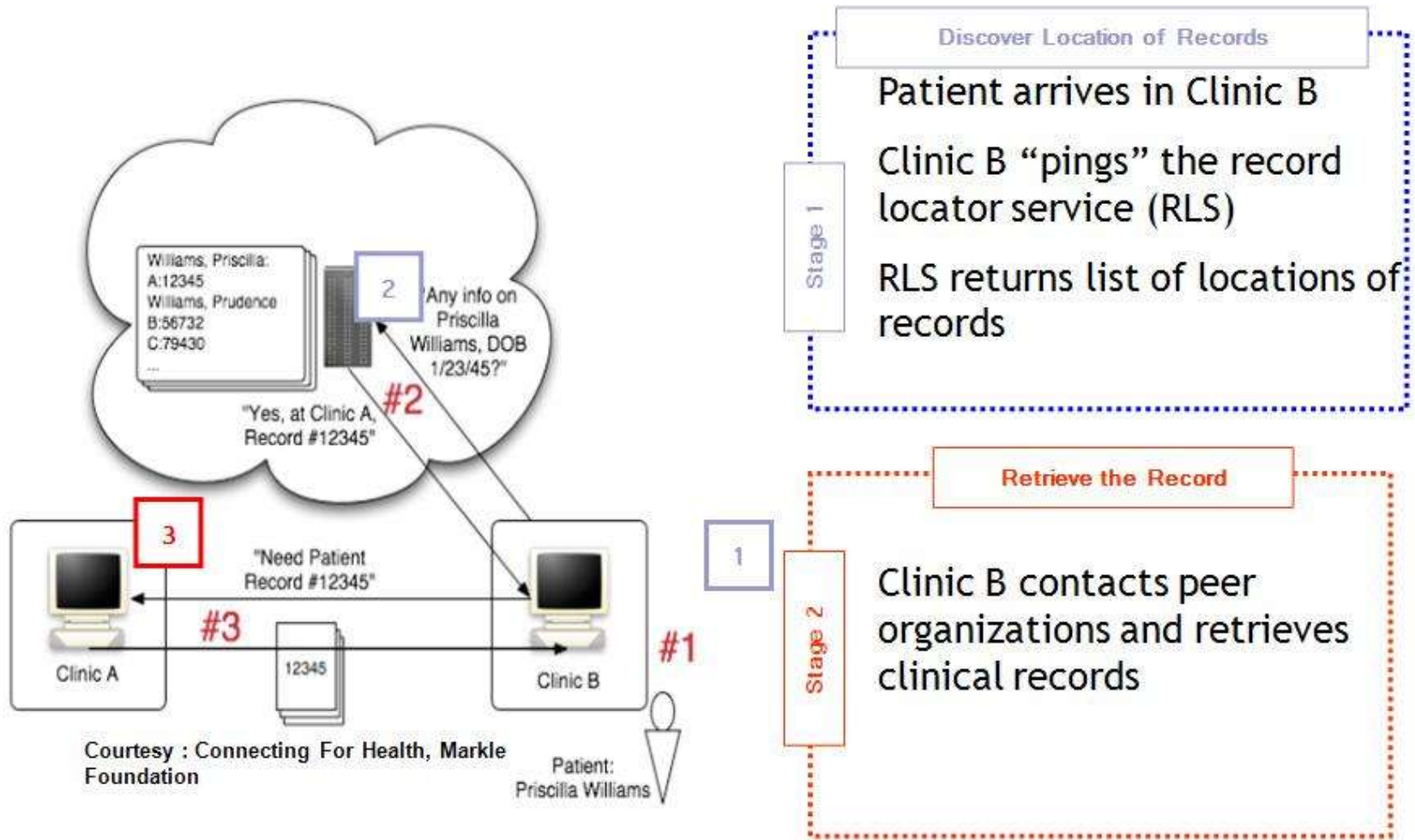




Design Principles of the Model

1. Builds on existing systems (“incremental”) and creates early value for doctors and patients
2. Leverages both “bottom-up” and “top-down” strategies
3. Designed to safeguard privacy—imposed the requirements and then designed the solution
4. Consists of an interoperable, open standards-based “network of networks” built on the Internet

2 Stage Data Exchange - Scenario



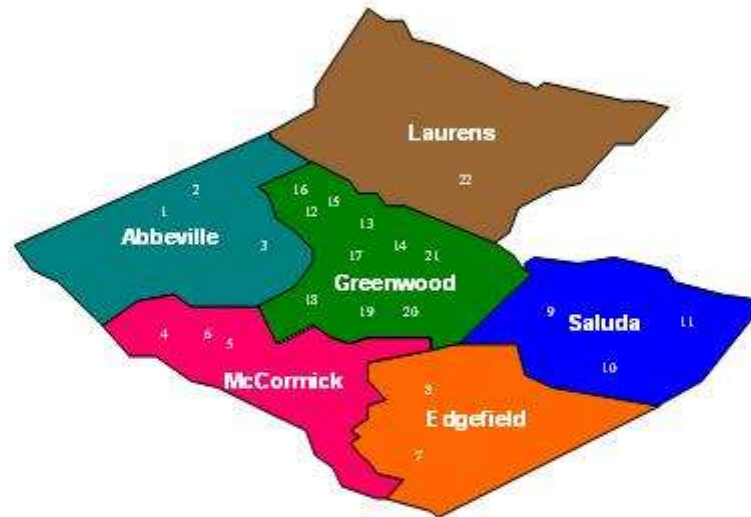


Lakelands Rural Health Network RHIO

- The First Live Pilot of the State HIE Infrastructure
- A Potential Model for Future Expansion



Lakelands Rural Health Network



- | | |
|--|---|
| 1 - Abbeville County Memorial Hospital | 12 - Montgomery Center For Family Medicine |
| 2 - Abbeville County Health Department | 13 - Egress Medical Care of Self Regional |
| 3 - Calhoun Falls Family Practice Center | 14 - Uptown Family Practice Center |
| 4 - Savannah Lakes Medical Center | 15 - Ware Shoals Family Practice |
| 5 - McCormick County Health Department | 16 - Ware Shoals Center for Family Medicine |
| 6 - McCormick Family Practice Center | 17 - The Self Family Foundation |
| 7 - Edgfield County Hospital | 18 - Greenwood County Health Department |
| 8 - Edgfield County Health Department | 19 - DHEC Region 1 Public Health |
| 9 - Ridge Springs Family Practice | 20 - Carolina Health Centers |
| 10 - Saluda County Health Department | 21 - Self Regional Healthcare |
| 11 - Saluda Family Practice | 22 - Laurens County Health Care System |

Building Massive Caregiver Appeal

- Target something real and concrete that is a pain-point or irritation for practitioners
 - Operational effectiveness: business impact
 - Referrals, pre-certifications, co-pays, collections
 - Records management
 - Prescription management
 - Risk management
 - Efficacy and safety: clinical impact
 - Timely results and notification: ending the paper-chase
 - Patient reminders
 - Access to health history for new patients
 - Emergency care
 - Patient satisfaction and e-health



Medicaid EPHR Project Version 2.0

- Uses the same technology platform and participates in the same policy development process
- Purpose: to provide the clinical viewer to all primary care providers who accept Medicaid
- Invaluable in forging additional partnerships
 - Reference labs
 - DHEC Immunization Registry



Overarching Vision for SCHIEx

SC Health Information Exchange – Network of networks

Applications

Network / Core Services

Regional networks



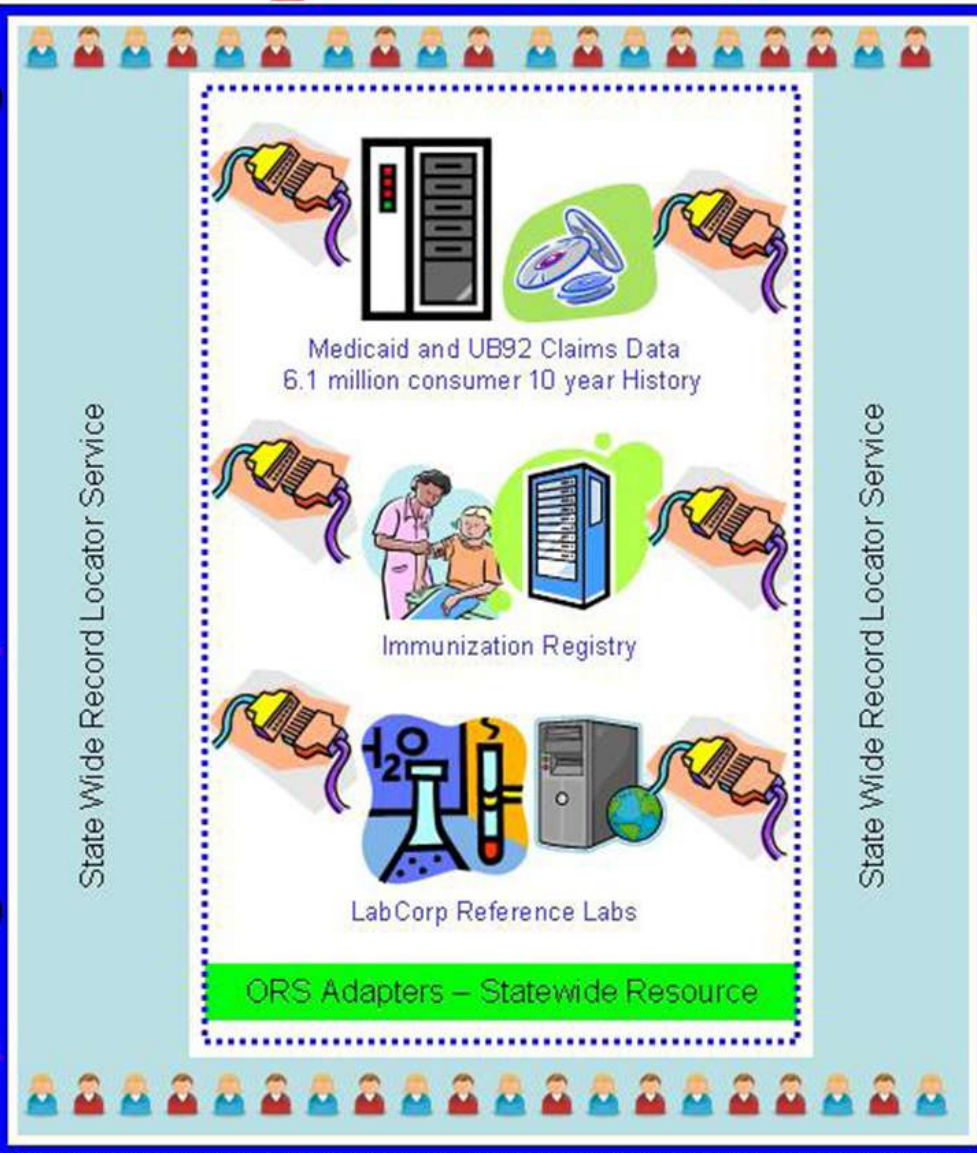
EMS / First Responder



Medicaid Primary Care Providers



Family Health Record



State Wide Record Locator Service

Medicaid and UB92 Claims Data
6.1 million consumer 10 year History

Immunization Registry

LabCorp Reference Labs

ORS Adapters – Statewide Resource

State Wide Record Locator Service



Georgetown Hospital



Medical University of South Carolina - HSSC



Lakelands Rural Health Network – 22 member HIE

Governance

Policy

Technology

Execution

Patient Data Viewer

[Change Application](#)

[Terms of Use](#)
[Privacy Policy](#)

**SC Office of Research
and Statistics**
1919 Blanding Street
Columbia, SC 29201



User: **CEUser** [Sign Out](#) | [Change Password](#)

My Census Definitions

Medicaid Demo

Census Search Criteria

Demographics

Last Name: Demoski
First Name:
Middle Name:

Go >>

Last Name	First Name	Middle Name	DOB	MRN	Admit Date
Demoski	Stan	V.	6/17/1995		3/31/2003
Demoski	Fran	K.	9/15/1990		1/7/2004
Demoski	Helen	T.	4/21/1950		2/3/2004
Demoski	Monte	A.	2/1/1989		8/26/2004
Demoski	Mary	S.	12/1/1992		10/7/2003
Demoski	Alfred	K.	4/1/1939		10/18/2004

<< < 1-6 of 6 > >>

Helen Demoski

[Change Patient](#)

Age: 56 yo
DOB: 4/21/1950

SSN: 998-98-9919
Medicaid: 123456789

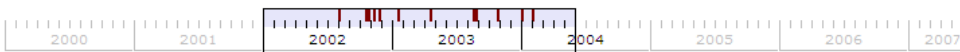
Ref#:



User: CEUser [Sign Out](#) | [Change Passwo](#)

- Dashboard
- Summary
- Reports
- Labs
- Collaborate

Click the timeline to change the data range



Inpt	ER	Clinic/Office	2002												2003												2004											
			J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M							

COMMON PROBLEMS

ASTHMA NOS
FX RADIUS NECK-CLOSED

PROBLEMS

PURULENT ENDOPHTHALM NOS

ASTHMA NOS
TRACHEA/BRONCHUS DIS NEC
ASTHMA NOS W (AC) EXAC
ACUTE SINUSITIS NOS

FX RADIUS NECK-CLOSED
COLLES' FRACTURE-CLOSED
ACCIDENT IN PLACE NOS

VISIT SUMMARY

PROVIDERS

LOVELACE FAMILY MED CTR
CVS PHARMACY #3542
LOREX
PALMETTO BONE & JOINT PA
Other

PROCEDURES

E/M OFFICE/OP SERV EST PATIEN
VITAL CAPACITY TOTAL
CLINIC VISIT/ENCOUNTER, ALL-I
RN SERVICES UP TO 15 MINUTES
NONINVASIVE EAR PULSE OXIMETR
E/M OFFICE/OP SERV EST PATIEN
RADIO EXAM ELBOW COMP MINIMUM
E/M OFFICE/OP SERV EST PATIEN
TREAT CLOS RAD HEAD/NECK FX W
DETERMINATION OF REFRACTIVE S
OPHTHALMOLOGICAL SVC COMPREHE

MEDICATIONS

VORENEK 1.25MG/3ML SOLUTION

- Infectious/Endocrine
- Neoplasms/Blood Disorders
- Psych/Nervous System
- Circulatory
- Respiratory
- Digestive
- Genitourinary/Reproductive
- Skin/Musculoskeletal
- Signs/ Symptoms
- Injury
- Health Services

Helen Demoski

[Change Patient](#)

Age: 58 yo F
DOB: 4/21/1950



User: CEClinician [Sign Out](#) | [Change Passwo](#)

[Provide Feedba](#)

- Consent
- Dashboard
- Summary
- DailySummary
- Eligibility
- Reports
- Labs
- Collaborate

Anchor at Noon/Midnight

11/28							11/29							11/30							12/1							12/2							12/3						
20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7						

PATIENT STATUS			
Vital Signs	111-129 / 62-73 HR:53-57 T: 96.7-99.1 RR: 18-22 SPO2: 94-98	84-129 / 51-73 HR:51-70 T: 97.1-98.1 RR: 20-22 SPO2: 96-98	104-122 / 61-94 HR:56-66 T: 95.8-96.7 RR: 18-20 SPO2: 94-100
Weight	108.3 kg	108.3 kg	108.3 kg

LATEST STATUS	
Latest Vital Signs	Home Meds... 12/3 06:29 - 113 / 94 HR:66 T: 96.7 RR: 20 SPO2: 94

LABS	
CBC	WBC:16.6 HCT:28.6 HGB:10.2
BMET	CL:104 BUN:26 K:4.3 NA:136 CO2:26

REPORTS	
Reports	Diagnostic X-Ray Diagnostic X-Ray

NOTES	
VForm Creation	Endocrinology Endocrinology Cardiology CT Surgery


ACTIVE ORDERS

LABS/TESTS ORDERED	
Laboratory	Protime, Prothrombin Time, Pt *

MEDS ORDERED	
MEDS ORDERED	

Helen Demoski

Age: 58 yo F
DOB: 4/21/1950



User: CEClinician [Sign Out](#) | [Change Passwo](#)

- Consent
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Anchor at Noon/Midnight

11/28							11/29							11/30							12/1							12/2							12/3						
12/1							12/2							12/3																											
20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7						

PATIENT STATUS

Vital Signs	111-129 / 62-73 HR:53-57 T: 96.7-99.1 RR: 18-22 SPO2: 94-98	84-129 / 51-73 HR:51-70 T: 97.1-98.1 RR: 20-22 SPO2: 96-98	104-122 / 61-94 HR:56-66 T: 95.8-96.7 RR: 18-20 SPO2: 94-100
--------------------	--	---	---

Weight	108.3 kg	12/1/2006 20:00-12/2/2006 08:00
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LATEST STATUS

Latest Vital Signs	Home Meds...	BP Systolic: 111 111 125 129 112	BP Diastolic: 62 62 65 73 53	Heart Rate: 57 57 53 53 54	Respirator: 18 18 18 22 20	Temperature: 96.7 96.7 99.1 98.1 98.1 98.0	SPO2: 94 94 95 98 98
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LABS

CBC	WBC:16.6 HCT:28.6 HGB:10.2
BMET	CL:104 BUN:26 K:4.3 NA:136

REPORTS

Reports	Diagnostic X-Ray	Diagnostic X-Ray
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NOTES

VForm Creation	Endocrinology	Endocrinology	Cardiology	CT Surgery
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ACTIVE ORDERS

LABS/TESTS ORDERED

Laboratory	Prottime, Prothrombin Time, Pt *
-------------------	----------------------------------

MEDS ORDERED

MEDS ORDERED	
---------------------	--

2002	2003	2004	2005	2006
------	------	------	------	------

	10/29	10/30	11/1	11/2	4/15	4/16	4/17	4/18	6/11	6/16
--	-------	-------	------	------	------	------	------	------	------	------

+ General Chemistry										
BUN	High 56	High 50	19	18	High 33 - -- High 37	High 34	High 31	High 39	High 36	16
CR	High 3.3	High 2.1	1.3	1.3	High 2.0 --- High 2.2	High 1.8	High 2.1	High 2.1	1.6	1.2
NA	138	139	142	138	137 --- 139	138	137	137	142	Low 135
K	High 5.6	4.9 --- High 5.4	4.9	4.9	5.0 --- High 5.6	4.6	4.5	4.7	4.2	4.6
CL	101	105	105	100	102 --- 102	101	100	103	100	99
CO2	24	30	29	28	25 --- 28	28	26	27	31	28
MG		2.3	1.9			2.1	2.0	2.1		
P		3.5	3.5			4.4	4.3	4.2		

+ Hematology										
WBC	Multiple Text: 15.0	9.5	9.1	7.0	High 14.1	High 16.6	High 20.9	High 20.5	High 10.2	Multiple Text: 14.8
RBC	Multiple Text: 1-2	Low 3.73	Low 3.65	Low 3.65	Low 3.75	Low 3.45	Low 3.53	Low 3.05	Low 3.03	Low 2.73
HGB	Low 12.3	Low 11.1	Low 10.9	Low 10.9	Low 11.1	Low 10.3	Low 10.4	Low 9.0	Low 8.8	Low 8.0
HCT	Low 36.8	Low 32.9	Low 32.6	Low 32.6	Low 33.1	Low 30.7	Low 31.3	Low 27.3	Low 26.6	Low 23.9
PL CT	251	228	221	197	253	254	287	264	High 427	High 422

+ Cardiac										
CPK	7315	Very High 3344 --- Very High 12147	6677	Very High 4528			108 --- 113	92		
CK MB	High 11.2	High 14.6 --- High 15.2	3.6				2.0 --- 2.2	1.7		
MB INDEX	0.2	0.1 --- 0.4	0.1				1.9 --- 1.9	1.8		
TROP	High 0.10	High 0.05 --- High 0.06	0.03				0.04 --- 0.04	0.02		

e.g. 'CBC', 'yesterday chem'
Go >>

Filters

Acuity

TimeCompression
Daily

Go >>

Lab Groups

My Lab Groups

- General Chemistry
- Hematology
- Cardiac

Go >>

	2002	2003	2004	2005	2006				
	10/1	11/1	4/1	6/1	7/1	8/1	11/1	12/1	4/1
+ General Chemistry									
BUN	High 50 --- High 56	18 --- 19	High 31 -- - High 39	16 --- High 36	11 --- High 31		19		12 --- High 29
CR	High 2.1 --- High 3.3	1.3 --- 1.3	High 1.8 - -- High 2.2	1.2 --- 1.6	1.0 --- High 2.1		1.2		1.1 --- 1.5
NA	138 --- 139	138 --- 142	137 --- 139	Low 135 --- 142	Low 132 -- - 143				138 --- 140
K	4.9 --- High 5.6	4.9 --- 4.9	4.5 --- High 5.6	4.2 --- 4.6	4.5 --- Very High 6.1		High 5.6		4.5
CL	101 --- 105	100 --- 105	100 --- 103	99 --- 100	Low 95 --- 105				100 --- 106
CO2	24 --- 30	28 --- 29	25 --- 28	28 --- 31	25 --- 28		30		27 --- 29
MG	2.3	1.9	2.0 --- 2.1		1.8 --- 2.0				
P	3.5	3.5	4.2 --- 4.4		3.6 --- 3.8				
ALB									Low 2.7
+ Hematology									
WBC	Multiple Text: 15.0	7.0 --- 9.1	High 14.1 --- High 20.9	Multiple Text: 10.2	9.1 --- High 17.5				7.8 --- 8.0
RBC	Multiple Text: 1-2	Low 3.65 - -- Low 3.65	Low 3.05 - -- Low 3.75	Low 2.67 --- Low 3.03	Low 2.08 - -- Low 3.53		Low 3.77		Low 3.02 - -- Low 3.15
HGB	Low 11.1 --- Low 12.3	Low 10.9 - -- Low 10.9	Low 9.0 -- - Low 11.1	Low 7.8 --- Low 8.8	Very Low 5.8 --- Low 10.1		Low 11.4		Low 9.7
HCT	Low 32.9 --- Low 36.8	Low 32.6 - -- Low 32.6	Low 27.3 - -- Low 33.1	Low 23.3 --- Low 26.6	Low 17.8 - -- Low 30.6		Low 34.6		Low 27.5
PL CT	228 --- 251	197 --- 221	253 --- 287	High 422 --- High 431	371 --- High 565				365 --- High 407
+ Cardiac									
CPK	Very High 3344 --- Very High 12147	Very High 4528 --- 6677	92 --- 113	67 --- 81	63 --- 93				
CK MB	High 11.2 -- - High 15.2	3.6	1.7 --- 2.2	1.3 --- 1.9	2.0 --- 2.0				
MB INDEX	0.1 --- 0.4	0.1	1.8 --- 1.9	1.9 --- High 2.3	High 2.2 - -- High 3.2				
TROP	High 0.05 -- - High 0.10	0.03	0.02 --- 0.04	0.03 --- 0.03	0.01 --- 0.02				

Helen Demoski

[Change Patient](#)

Age: **56 yo**
DOB: **4/21/1950**

SSN: **998-98-9919**
Medicaid: **123456789**

Ref#:



[Dashboard](#)

[Summary](#)

[Reports](#)

[Labs](#)

[Collaborate](#)

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Reports

- Admit Report Type
 - 5/12/2006 11:47:13 AM
 - 5/12/2006 11:47:13 AM
 - 5/12/2006 11:47:13 AM

History and Physical

Dr. John Smith
 University Hospital
 1301 Medical Center Driver
 Cyber City, MI 48105
 Patient: Helen Demoski
 MRN: 00000808

This is an example of a History and Physical. A review of systems and a history of the present illness would be displayed here. Additional information may be summarized about the patient. The physician will likely include an assessment and plan. This note will be dictated by the physician and received as an electronic transaction from the dictation system.

Signed,
 John Smith, MD

[South Carolina Budget and Control Board](#)

[Office of Research and Statistics](#)

1919 Blanding Street
 Columbia, SC 29201
 (803) 898-9940

Web-based Patient View

CareEvolution WebClient - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://careevolution.com/PHRDemo/WebClient/Authenticated/HealthExpenseReports.aspx>

My Family Health Records

My Records Share My Record Reports

User: **maddams** [Sign Out](#) | [My Settings](#)

My Record

[Morticia Frump-Addams](#)

My Family's Records

[Grandmama Frump](#)
[Gomez Addams](#)
[Pugsley Addams](#)
[Wednesday Addams](#)
[Elvira Peterson](#)

Important Information

Bronchitis
[What is it](#)
[When to seek medical attention](#)
[Prevention](#)

Kidney Failure
[What is it](#)
[Self care](#)
[Treatment](#)

Headache
[Overview](#)
[Prevention](#)
[Treatment](#)
[Alternative Medicine](#)

Message Center

From	Subject	Date
Dr. Jack Lemmon	Your Aspirin Dosage	11/20/2006 7:08 PM
Dr. Eza Monroe	Appointment is changed	11/10/2006 7:08 PM
Grungy Adams	Grungy Adams accepted your invitation to join	11/9/2006 5:02 PM

Provider Listings [Search for Providers](#)

Name	Speciality	Phone	Rating	Message	Rate
Dr. Jack Lemmon	Cardiology	734-555-1234	85%	Send Message	Rate
Dr. Walter Mathau	Internal Medicine	734-555-6139	90%	Send Message	Rate
Dr. George Lazenby	Orthopedic Surgeon	734-555-9876	70%	Send Message	Rate

Appointment Manager

Date and Time	Title	For	Provider	Location
<input type="checkbox"/> 11/28/2006 11:30	Dentist appointment	Morticia Frump-Addams		St Lawrence Clinic
<input type="checkbox"/> 11/28/2006 12:30	Dentist appointment	Pugsley Addams		St Lawrence Clinic

[Add](#) [Remove](#) [Selected](#)



Contact Information

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Comments and Recommendations for Future Sessions

- Please send your comments and recommendations for future sessions to the project's e-mail address:

Medicaid-SCHIP-HIT@ahrq.hhs.gov



Project Information

Please send comments and recommendations to:

Medicaid-SCHIP-HIT@ahrq.hhs.gov

or call toll-free:

1-866-253-1627

Medicaid-SCHIP-HIT@ahrq.hhs.gov

<http://healthit.ahrq.gov>