

Enabling Better Health Care in Memphis

Mark Frisse, MD

Vanderbilt University

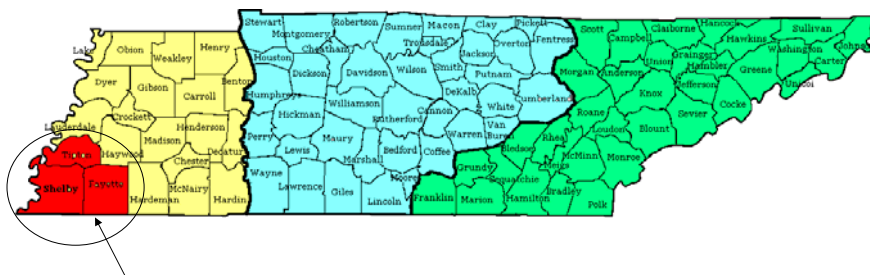
MidSouth eHealth Alliance

<http://www.mseha.org>

<http://www.volunteer-ehealth.org>

<http://www.volunteer-ehealth.org/frisse>

One million people in three counties



Tennessee borders 8 other states

Our initiative covers 3 counties and includes Memphis.

11% of one TennCare population visited more than on ED in a year

20 – 25% of hospital visits in Memphis are from Mississippi or Arkansas residents

Summary

- We have an operational system managed through a new non-profit organization (MidSouth eHealth Alliance)
- Comprehensive information – not just claims
- Members bound together by formal data-sharing agreements and user agreements (based on Markle Connecting for Health Framework)
- Over 14 separate institutions “publishing” data
- We take data in whatever format is available – no major burden on hospitals or other “publishers”
- In use in two emergency departments so far
- It will address the needs of all who seek care in all hospitals in the greater Memphis area; it is not plan-dependent
- Focused at present on individuals, not populations

Our goal

- Understand how to assemble all of the information needed to care for an individual when it is needed
- Understand how to protect the confidentiality and privacy of individuals in the context of a digital world
- Document how such approaches can lead to better medical care
- Create the opportunity for a new market for health care where competition is over better outcomes and not possession of information
- Identify the major challenges to a national health information infrastructure and address them

Our core partners

- Baptist Memorial Health Care Corporation – 4 facilities
- Christ Community Health – (4 primary care clinics)
- Methodist Healthcare – 7 facilities including Le Bonheur Children’s Hospital
- The Regional Medical Center (The MED)
- Saint Francis Hospital & St. Francis Bartlett
- St. Jude Children’s Research Hospital
- Shelby County/Health Loop Clinics (11 primary care clinics)
- UT Medical Group (300+ clinicians)
- Memphis Managed Care-TLC (MCO)

© 2006, Vanderbilt University

5

MidSouth eHealth Alliance - Memphis

- Board celebrated one year anniversary in February 2006
- Formally incorporated in August 2005
- Not-for-profit status (501 (c) (3)) March 2006
- In process of recruiting for Executive Director
- Focus in year one was start up, year two implementation/start up and year three will be operations and sustainability
- Participates on Statewide eHealth Council

© 2006, Vanderbilt University

6

What kind of information is available?

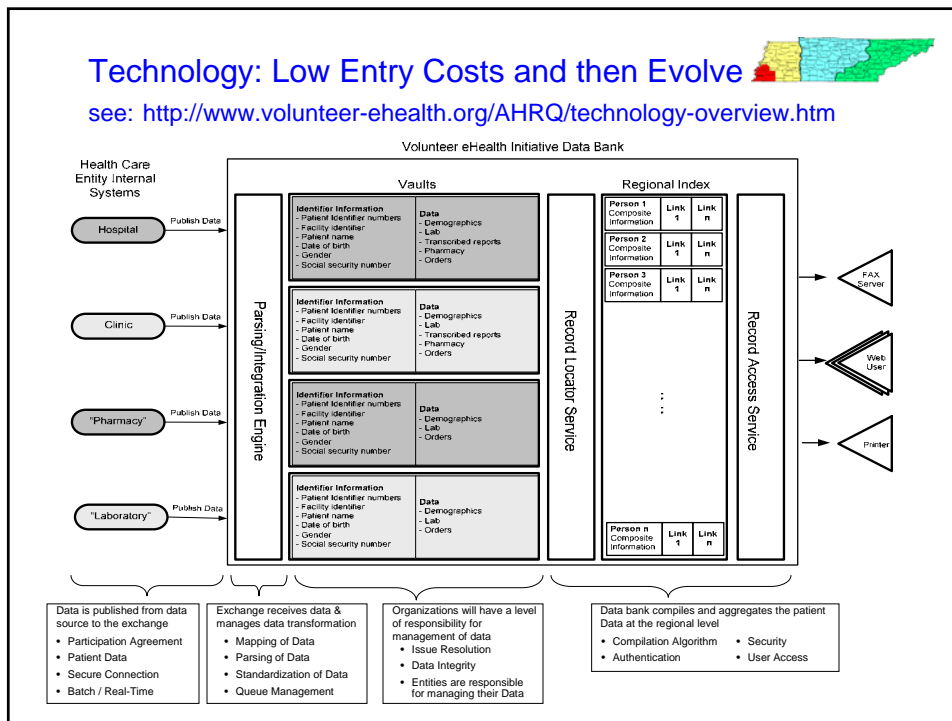
- Patient identification/demographics
- Lab results
- Encounter data: date of service, physician and reason
- Dictated Reports
 - Imaging studies
 - Cardiology studies
 - Discharge summaries
 - Operative reports
 - Emergency room summaries
 - History and Physicals
- Soon: pharmacy, medical claims, allergies

© 2006, Vanderbilt University

7

Technology: Low Entry Costs and then Evolve

see: <http://www.volunteer-ehealth.org/AHRQ/technology-overview.htm>



Record locator

Record locator service shows where patients have received care. Nor personal health information is visible from this view.

If a patient has asked not to be included, they are excluded at the institutional level. For example, had a patient "opted out" at St. Francis-Bartlett, the last line of the list below would not be seen. One can "drag and drop" or exclude specific records as well through this interface.

patient search result
 You just searched for
 MRN: M000579114 VAULT: med
 Please use the plus, minus and hide button to toggle your selection.

MRN	NAME	DOB	SEX	SSN	SITE	DDS
00	16		S	-74	M XXX-X5-3337	Baptist Memphis (East) 06/01/2006
40			S	-74	M XXX-X5-3337	Methodist Healthcare 06/01/2006
42			S	-74	M XXX-X5-3337	Methodist Healthcare 06/03/2006
MC	14		S	-74	M XXX-X5-3337	The Regional Medical Ctr 05/31/2006
00			S	-74	M XXX-X5-3337	St. Francis Hospital 05/31/2006
06			S	-74	M XXX-X5-3337	Saint Francis-Bartlett 05/12/2006

Data

Data are presented simply. Tabs for each institution are available at the bottom of the screen to ensure (as a double-check) that one is looking at the same patient.

Full Demographics:

BAR BMHCC-Mem MED Methodist Methodist SFH

The Regional Medical Ctr: M000579114 Date of Service: 21-APR-06

Name: J R E
 DOB: 1 -74 - 31YO
 Gender: M
 Race: B
 SSN: XXX-X5-3337
 Patient Address: ER AVE APT 4 MEMPHIS TN 38108
 Phone: (901) -

06/03/06
 05/31/06
 05/30/06
 05/27/06
 05/25/06
 05/24/06
 05/20/06
 05/17/06
 05/16/06
 05/14/06
 05/13/06
 05/12/06
 05/06/06

Detailed notes

Detailed notes – transcriptions, discharge summaries – are often deemed most valuable by ED clinicians

The screenshot shows a medical software interface with a patient search panel on the left and a detailed notes panel on the right. The patient search panel includes fields for Name, SSN, MRN, First name, Last name, Date of birth, and Gender. The notes panel displays patient information and a detailed medical history. The notes mention that the patient used a previous account number and that the provider was not formally assessed or evaluated by him. The notes also mention that the patient was not formally assessed or evaluated by the provider.

© 2006, Vanderbilt University

11

The screenshot shows a medical software interface with a patient search panel on the left and a table of lab results on the right. The table has columns for Date, Location, Anion Gap, BUN, CL, CL CO2, Ca, Ca Creat, Gluc, K, K Na, and Na. The table contains multiple rows of lab results for different dates and locations.

Date	Location	Anion Gap	BUN	CL	CL CO2	Ca	Ca Creat	Gluc	K	K Na	Na
09/27/06 15:45	SFH	4*	103	-	26	8.8	-	1.0	113*	-	3.1* 137
09/25/06 06:25	SFH	2*	106	-	26	8.1*	-	1.1	84	-	3.4* 140
09/24/06 05:00	SFH	3*	106	-	26	8.6*	-	0.9	88	-	3.1* 140
09/22/06 16:00	SFH	8	105	-	26	8.3*	-	1.3	92	-	3.2* 140
09/21/06 06:00	SFH	15	102	-	24	7.8*	-	1.8*	76	-	3.2* 137
09/21/06 02:01	BAR	13	101	-	22*	8.5*	-	1.6*	80	-	3.5 136
09/20/06 16:52	SFH	-	-	-	-	-	-	-	-	-	2.8*
09/20/06 06:38	SFH	4*	104	-	27	9.0	-	1.3	104	-	2.9* 141
09/13/06 22:05	BAR	7*	102	-	26	8.7*	-	1.3	99	-	2.8* 136
09/08/06 19:23	BAR	-	12	101	-	27	9.6	-	1.9*	79	3.3* 137
09/06/06 19:31	SFH	-	12	104	-	26	9.6	-	2.2*	108	3.5 142
09/04/06 04:45	SFH	-	11	100	-	27	9.9	-	2.0*	88	3.9 144
09/02/06 04:45	SFH	-	11	99	-	28	9.2	-	2.2*	98	3.9 136
08/30/06 04:00	SFH	-	10	102	-	23	8.1*	-	2.1*	98	4.0 134*
08/28/06 04:55	SFH	-	13	109*	-	22*	9.0	-	2.3*	101	4.7 139
08/26/06 05:30	SFH	-	11	108*	-	23	8.5*	-	2.3*	97	4.4 140
08/25/06 05:00	SFH	-	14	104	-	26	9.4	-	2.5*	90	4.3 137
08/24/06 00:01	SFH	-	18	100	-	22*	9.1	-	2.6*	107	3.3* 134*
08/22/06 20:30	SFH	-	13	96*	-	26	10.0	-	2.0*	100	3.4* 133*
08/19/06 09:00	SFH	-	9	98	-	27	9.2	-	1.6*	108	4.4 133*
08/18/06 03:30	SFH	-	8	100	-	29	8.3*	-	1.6*	105	4.2 135
08/17/06 05:00	SFH	-	10	100	-	26	9.2	-	1.7*	99	4.9 134*
08/16/06 04:30	SFH	-	10	99	-	24	9.1	-	1.6*	100	5.6* 132*
08/15/06 03:00	SFH	-	12	106	-	27	9.0	-	1.7*	122*	5.0 139

© 2006, Vanderbilt University

12

Where are we using it?

- Emergency department is principal focus for early efforts because it presents a financial return to participating hospitals. It is also a national and state-wide priority
- Two sites are “live.” Next site is Baptist East (November)
- Implement the remaining Emergency Departments (12) through the end of 2007
- Very positive response from physicians; it is impacting care
- Later: will connect safety-net clinics to build on urgent care focus

Major challenges


- Governance: Building a solid coalition/governance structure that enables building consensus between organizations with a strong history of competition
- Technology: Lack of data standards
- Privacy and Security: What is required in terms of policy and legal documents to share patient data for clinical purposes
- Sustainable Business Model: Define the value before the value is “carved” up by disparate initiatives and identify future funding/revenue to sustain the operations
- Consumer involvement: What will the consumer expect from this type of system

Funding


- 5 year contract/grant from Agency for Healthcare Research and Quality (AHRQ) - total award is \$4.8 million
- State of Tennessee provided additional funds in the amount of \$7.2 million for the same 5 year period
- MidSouth eHealth Alliance will receive additional funding from the state to fund operations (e.g. Executive Director and local support staff)
- Vanderbilt software donated during the project
- Vanderbilt staff and project management
- Contributed to several secondary awards to state and Memphis (e.g., RWJ)

Opportunities

- This will be revolutionary – as the Internet was to libraries and commerce
- Entirely new approaches to academic disciplines will emerge
- Health care reform
- Public health
- New approaches to authentication
- New approaches to integrating consumer devices and new technologies that will be in our homes
- New applications for making data anonymous
- Safety: post-market drug surveillance



[Home](#) [FAQ](#)




Connecting Healthcare

MidSouth eHealth Alliance is working for you.

Log In

USER ID:


PIN: TOKEN:


Your PIN + 

Welcome


MidSouth eHealth Alliance (MSEHA) is a non-profit initiative to improve the quality, safety, and efficiency of health care. By providing an electronic exchange of health information, physicians can securely access vital information when and where it is needed.

Participants











Fact Sheet

 What is the MidSouth eHealth Alliance? Who is participating? You can download a Fact Sheet that answer the most frequently asked questions about the initiative.

[Click here to download the Fact Sheet](#)

Other Health Data Sites

 Transforming Care

The Clinical Health Record™ creates a more

17



VOLUNTEER EHEALTH INITIATIVE



[HOME](#) [RESOURCES](#) [CALENDAR](#) [NEWS](#) [AHRQ](#) [ABOUT US](#) [CONTACT US](#) [MEMPHIS](#)

Previous

- [The MidSouth eHealth Alliance Data Sharing Agreements and Supporting Documents](#)
- [FORE / AHIMA Report](#)
- [The Tennessee eHealth Advisory Council](#)
- [Tennessee one of 9 States Participating in HHS / AHIMA Study](#)
- [Governor Bredesen, Healthcare Leaders Launch Campaign to Help Thousands of Tennessee Physicians Start e-Prescribing](#)
- [Volunteer eHealth Initiative Described in Recent AHRQ-funded Report](#)
- [Technical Advisory Panel Member Featured in Wall Street Journal](#)
- [Doctors Explore Prescription Usage](#)
- [Harvard and Industry Partners Announce Open-Source, User-Centric Identity Management Project](#)
- [CareSpark to co-Sponsor May 6 EMR Meeting](#)

Tuesday, September 26, 2006

The MidSouth eHealth Alliance Data Sharing Agreements and Supporting Documents

As of September, 2005, the MidSouth eHealth Alliance (MSeHA) and the AHRQ/TN State regional demonstration project is receiving comprehensive clinical data (labs, reports, diagnoses, etc.) from 15 organizations and is in operation in several emergency departments in the greater Memphis Area.

Our work led us to conclude that data-sharing agreements are critical. This process was based on data-sharing and other documents from the Markle Connecting for Health Policy Group. The process took much longer than expected but served as a vital means of bringing over 50 people within the region to a more common, patient-centered goal.

The MidSouth eHealth Alliance is a non-profit company chartered specifically to manage the data exchange demonstration project and is supported by multiple sub-groups and an inclusive operations committee working continually on updating policies and procedures. We present on this site three documents produced in the course of our work.

<http://www.volunteer-ehealth.org>

18