Connected Healthcare – A View of the New Reality

Presented to

Building a Bridge to Better Health Coalition

August 22, 2013

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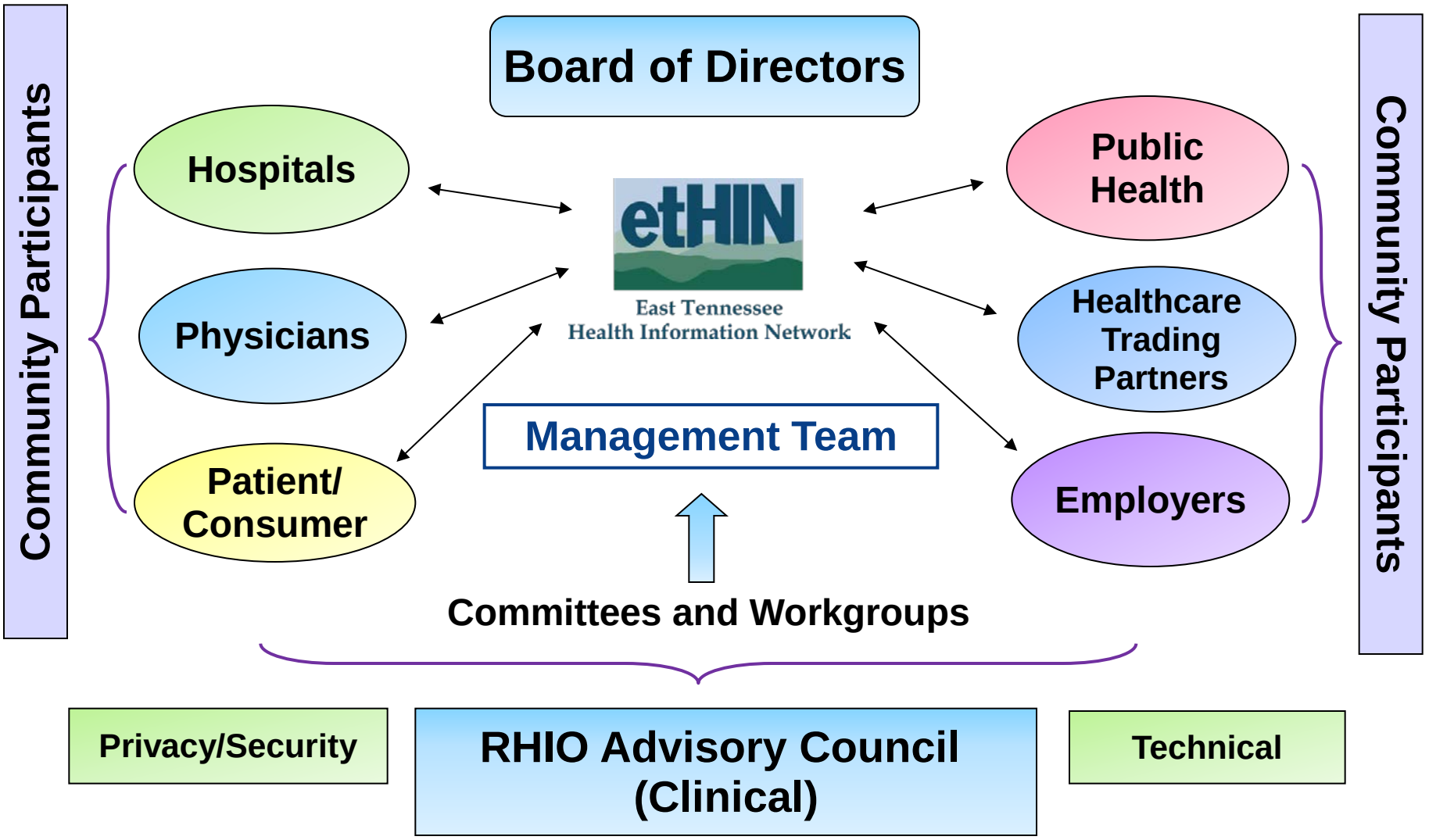
Who is etHIN?

East Tennessee
Health Information Network

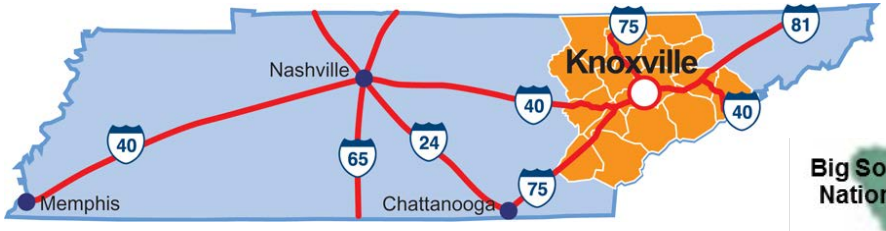
East Tennessee Health Information Network (etHIN) is a Regional Health Information Organization (RHIO) providing health information exchange (HIE) tools and technology services within its primary 17-county Community of Care.

etHIN is a patient-centric community HIE. etHIN is a 501c3 non-profit organization with a sustainability plan and fee for service business model.

etHIN's Governance



The etHIN Targeted "Community of Care"



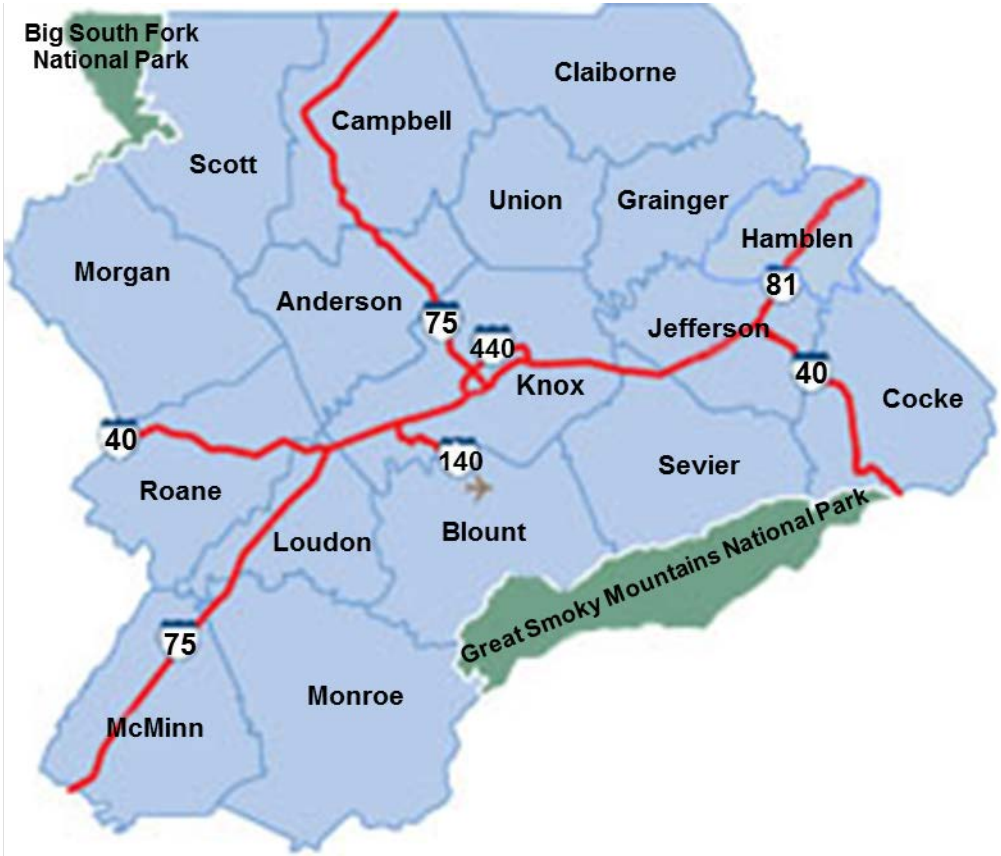
17 Counties

Over 1.2 million Patients

2,500+ Physicians

11 Hospital Systems

More than 4,500 Beds



A Look at etHIN's Region, Statistically

etHIN Region County Statistics

(17 of 95 Tennessee counties)

Health Outcomes

County Ranking	2012	vs.	2009
Anderson	44		36
Blount	4		5
Campbell	93		82
Claiborne	78		72
Cocke	85		88
Grainger	32		30
Hamblen	31		29
Jefferson	60		27
Knox	10		9
Loudon	16		25
McMinn	55		52
Monroe	36		28
Morgan	56		50
Roane	45		32
Scott	57		78
Sevier	28		23
Union	69		71

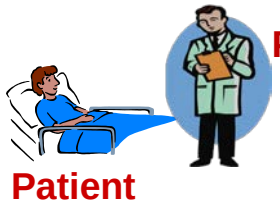
www.countyhealthrankings.org/tennessee

1st Quartile – 18%		2nd Quartile – 29%	
County	Rank	County	Rank
Blount	4	Sevier	28
Knox	10	Grainger	32
Loudon	16	Monroe	36
		Anderson	44
		Roane	45
3rd Quartile – 35%		**4th Quartile – 18%**	
County	Rank	County	Rank
McMinn	55	Claiborne	78
Morgan	56	Cocke	85
Scott	57	Campbell	93
Jefferson	60		
Hamblen	61		
Union	69		

2012 etHIN Region Common County Challenges

- Premature Mortality
- Diabetes
- Cancers
- Cardiovascular Disease

Current View of etHIN Data Participants



Physician

Patient

EAST TENNESSEE Children's Hospital

ADT
CARD
LAB
NICU
RAD
TRNS

Immunizations

Covenant HEALTH
Excellent. Together.

ADT
LAB
PATH
TRNS
RAD

Covenant Medical Management

LAB Results

ADT

LAB Orders

THE UNIVERSITY OF TENNESSEE MEDICAL CENTER
EXPANDING THE FRONTIERS OF MEDICINE

Blount Memorial Hospital

ADT
LAB
RAD
TRNS

KDL

ADT
LAB

etHIN
East Tennessee Health Information Network

ADT
LAB
RAD
TRNS

Immunizations

ADT

Summit Medical Group

UPA

ADT

KAPA

Immunizations

TDOH

CCD

eHealth Exchange
(formerly NwHIN)

DIRECT HISP

Coming Soon
Cherokee Health Systems
Premier Surgical Associates
Knox County Health Dept.
UPA – Clinical Data
University Radiology
Tennova

Legend
Green – In Production
Orange – Testing

etHIN Transaction Count

As of July 31, 2013

Transaction Count by Facility			
Transaction Type	**Message Count Thru 7/08/2013**	**Message Count Thru 7/31/2013**	**Transaction Go Live Date**
COVH ADT	7,705,475	8,357,180	3/8/2012
COVH LAB	4,096,302	4,409,408	3/15/2012
COVH MERGE	14,873	16,143	3/12/2012
COVH TRN	686,607	745,966	3/28/2012
COVH RAD	260,070	380,218	4/11/2013
COVH PATHOLOGY	3,661	7,283	5/22/2013
ETCH ADT	2,117,167	2,328,553	6/14/2012
ETCH CARD	4,469	4,906	6/27/2012
ETCH MERGE	1,230	1,359	6/14/2012
ETCH NICU	21,528	23,275	6/27/2102
ETCH RAD	115,681	124,543	7/11/2012
ETCH TRN	29,457	33,157	7/11/2012
ETCH LAB	346,223	383,919	9/20/2012
UTMC ADT	2,691,773	2,906,142	3/21/2012
UTMC MERGE	2,913	2,954	3/21/2012
UTMC RAD	233,106	257,826	7/16/2012
UTMC LAB	850,446	962,775	9/19/2012
UTMC TRN	149,378	163,216	6/5/2012
SMG ADT	233,267	355,801	4/3/2013
SMG MERGE	367	623	4/3/2013
Grand Total	**19,563,993**	**21,465,247**	

Unique Patient Count
819,880

Grand Total Transaction Count						
ADT	**Lab**	**Transcribed Reports**	**Rad**	**Merge**	**NICU (ETCH only)**	**Cardiology (ETCH only)**
13,947,676	5,763,385	942,339	762,587	21,079	23,275	4,906

Whose else is etHIN working with?

Imminent "go live":

- University Physician's Association – in test / design
- Premier Surgical Associates – in test / design
- University Health Systems Physicians – in test / design
- Covenant Medical Management – in test

Signed DSA's :

- Cherokee Health Systems
- Dermatology Associates of Knoxville, PC
- Knox County Health Department
- Knoxville Dermatopathology Lab
- Tennessee Orthopaedic Clinics
- University Radiology
- Westside Gastrointestinal Specialists

DSA's Under Review:

- Allergy Asthma and Sinus Center
- Campbell, Cunningham, & Taylor
- Cumberland Medical Center
- Endocrinology Consultants
- Gastrointestinal Associates, PC
- HealthStar Physicians, PC
- Knoxville Gastrointestinal Specialists
- Knoxville Kidney Center
- Knoxville Pediatric Associates
- Mountain People's Health Councils, PC
- Newport Internal Medicine
- Ortho Tennessee
- Tennova/HMA
- UTMC Hospice
- Vista Radiology
- West Knoxville Heart, PC

Numerous others 'in discussion'

Future View of the etHIN Community

Physician

Patient

EAST TENNESSEE Children's Hospital

Home Health

Covenant HEALTH Excellent. Together.

Rural Facilities

THE UNIVERSITY OF TENNESSEE MEDICAL CENTER
EXPANDING THE FRONTIERS OF MEDICINE

Blount Memorial Hospital

Tennova Healthcare

etHIN
East Tennessee Health Information Network

Summit Health Solutions ACO

Community Labs

Community Hospitals

Community Radiology

Community Pharmacies

TDOH

Knox Co Dept. of Health

eHealth Exchange (formerly NwHIN)

Physician Groups

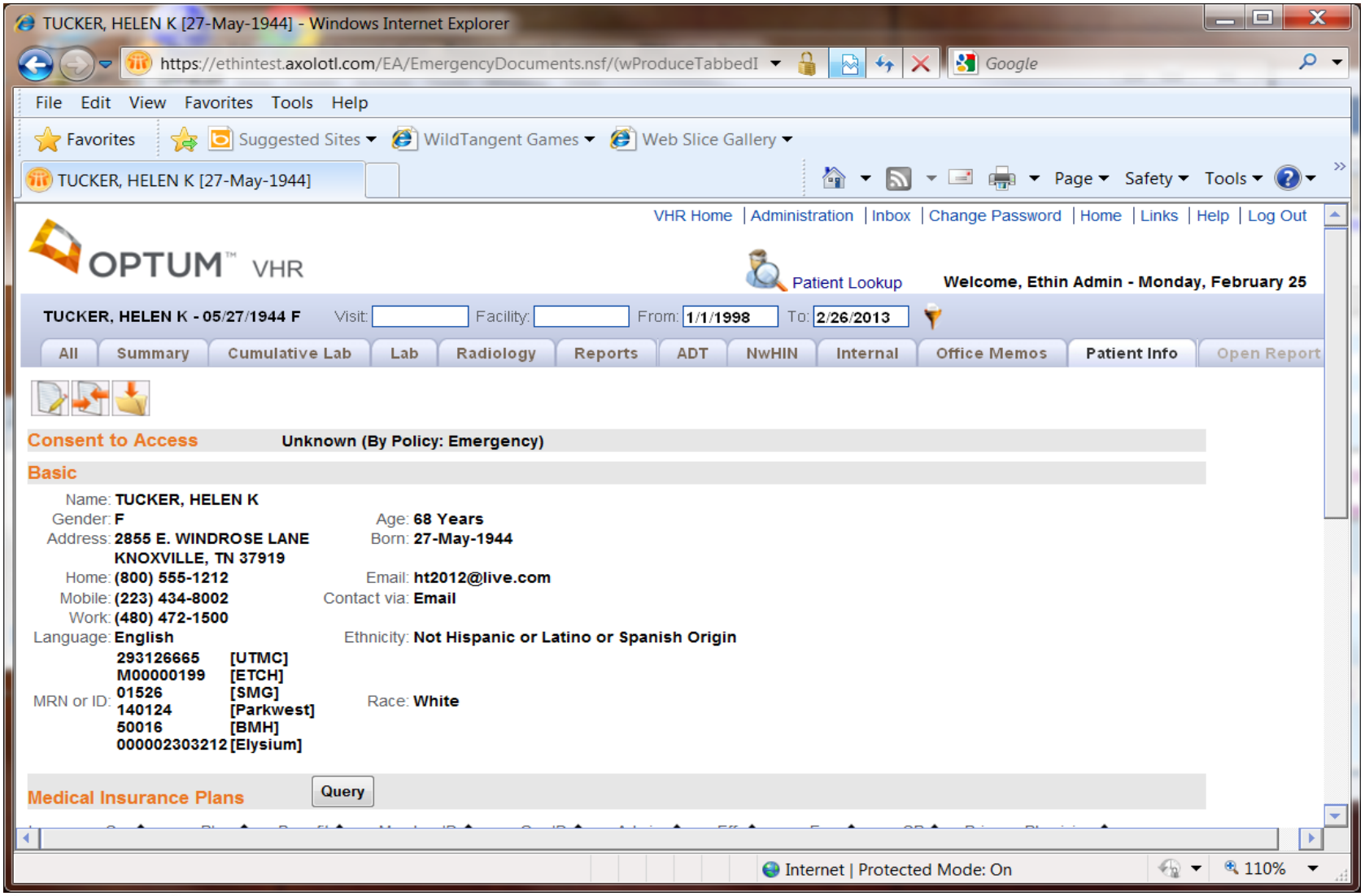
Long Term Care

Many ways to connect: etHIN Products and Services

- ***VHR*** – Virtual Health Record / Physician's Portal / Secure Messaging with Referral Forms
- ***EMR Lite & Clinical Inbox*** / Secure Messaging with Referral Forms / Filtered Data Push
- ***Integration* of Practice EMR system** with Single Sign-On (SSO)
- ***Immunization Registry / ELR connection*** (other registries being considered)
- ***Image Gateway*** with Image Viewer
- ***Orders-Results Matching Gateway***
- ***etHIN DIRECT secure messaging*** service (September 2013)
- ***Patient Portal / PHR Marketplace OR Patient Portal*** with Customizable Care Management Plans (4th quarter 2013)

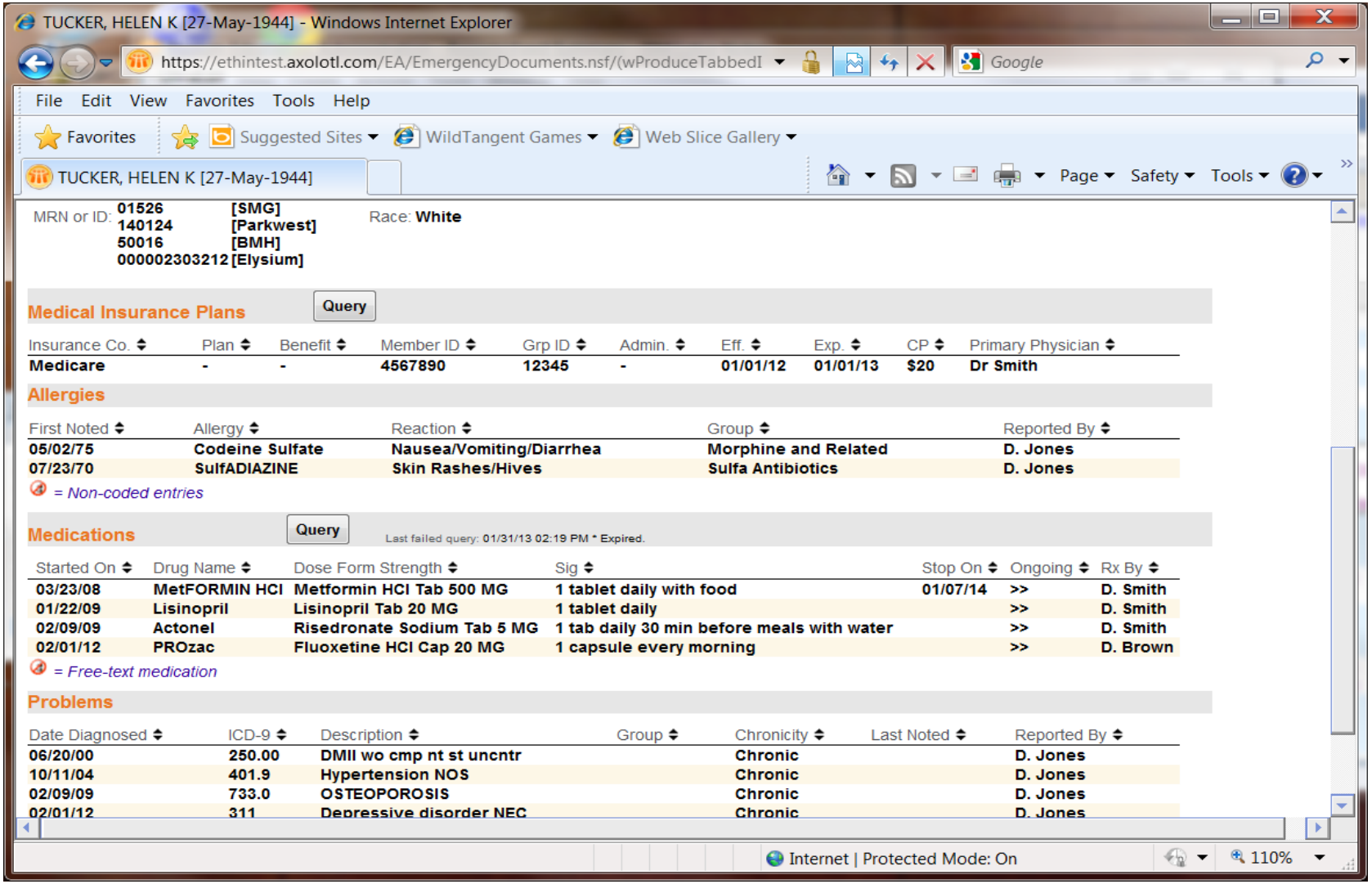
Information Available through the HIE

(Patient Info page)



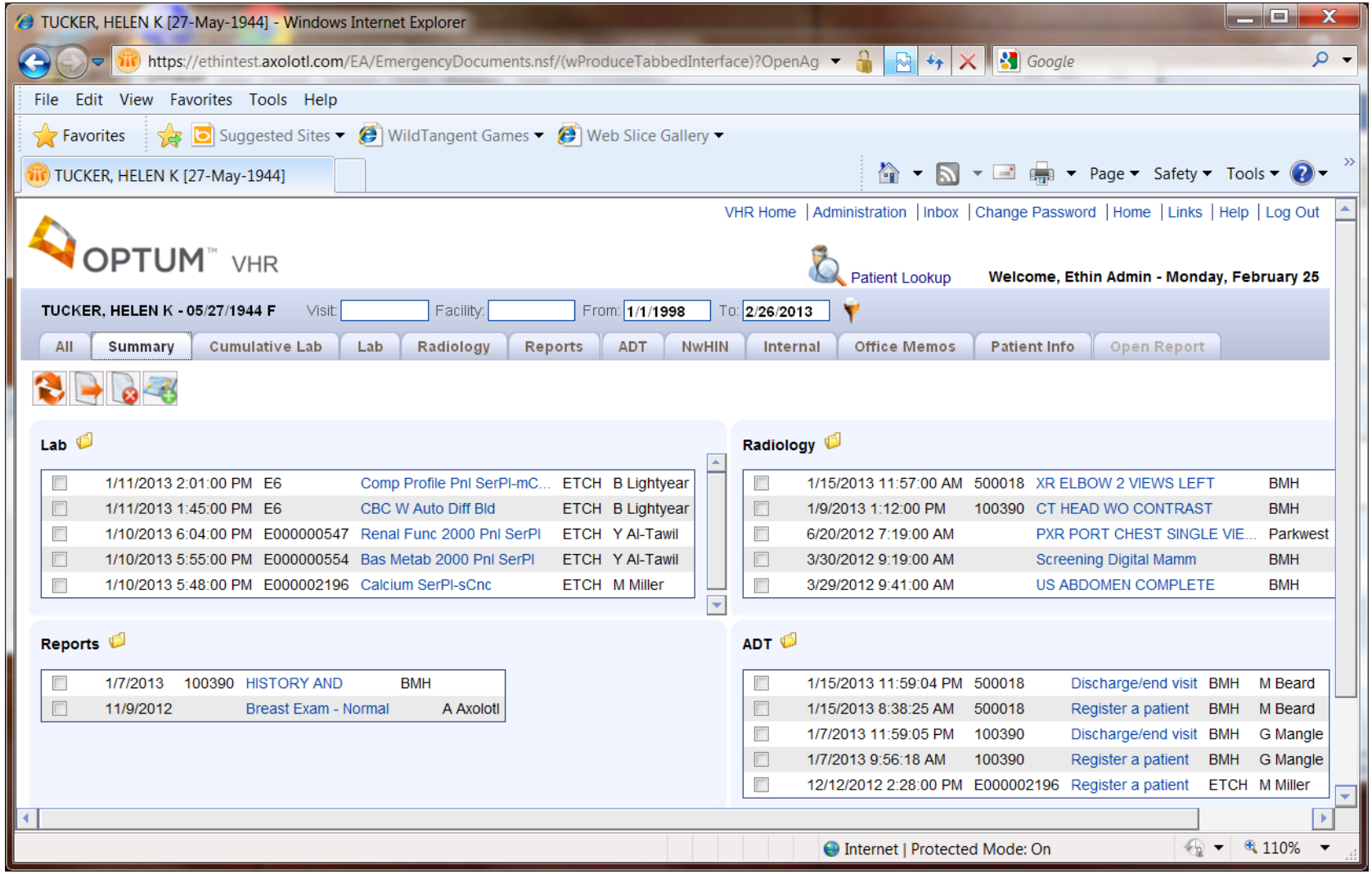
Information Available through the HIE

(Patient Info page continued)



Information Available through the HIE

(Summary page)



What is DIRECT?

DIRECT is a healthcare only secure email system that allows participants – *physicians, patients, clinical labs, and other healthcare providers* – to send and receive encrypted medical information directly to known, trusted recipients.

Source: http://directproject.org

Why Is Participation in Health Information Exchange through etHIN Important?

- **Participating with etHIN can enable Community healthcare providers to:**
  - **Access real-time patient information** anywhere you can access a browser
  - **Receive and share** information, or **refer** patients with/to other providers
  - Provide and access more information for clinical decisions, which should **lead to safer, more effective care**
  - **Reduce provider costs** related to faxing and associated personnel costs, redundant technology feeds, and duplicate testing
  - **Promote early detection, prevention, and management of chronic diseases**
  - Assure **safety and security of patients' health information when sharing**
  - Meet **Meaningful Use** objectives around data sharing
  - **Facilitate a more expedient, audited Orders and Referrals Process within the community**

The Coalition's Role in HIE

- What are the Coalition's near-term projects?
- What are the Coalition's long-term goals?
- How can etHIN's tools help the Coalition's projects and goals come to fruition?

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