



Better Connections, Better Care.

## GaHIN Overview

Denise Hines, DHA, PMP, FHIMSS  
Executive Director, GaHIN



GEORGIA  
HEALTH  
INFORMATION  
NETWORK

## Mission:

To **facilitate a statewide health information network** for Georgia that is trusted and valued by all stakeholders; works to improve health care coordination and reduces costs; and establishes a solid foundation for long-term financial sustainability.

## Vision:

To **create a healthier Georgia** through the use and exchange of electronic health information to improve patient-centered health care, increase efficiencies and improve the health of the state's entire population.

## Purpose:

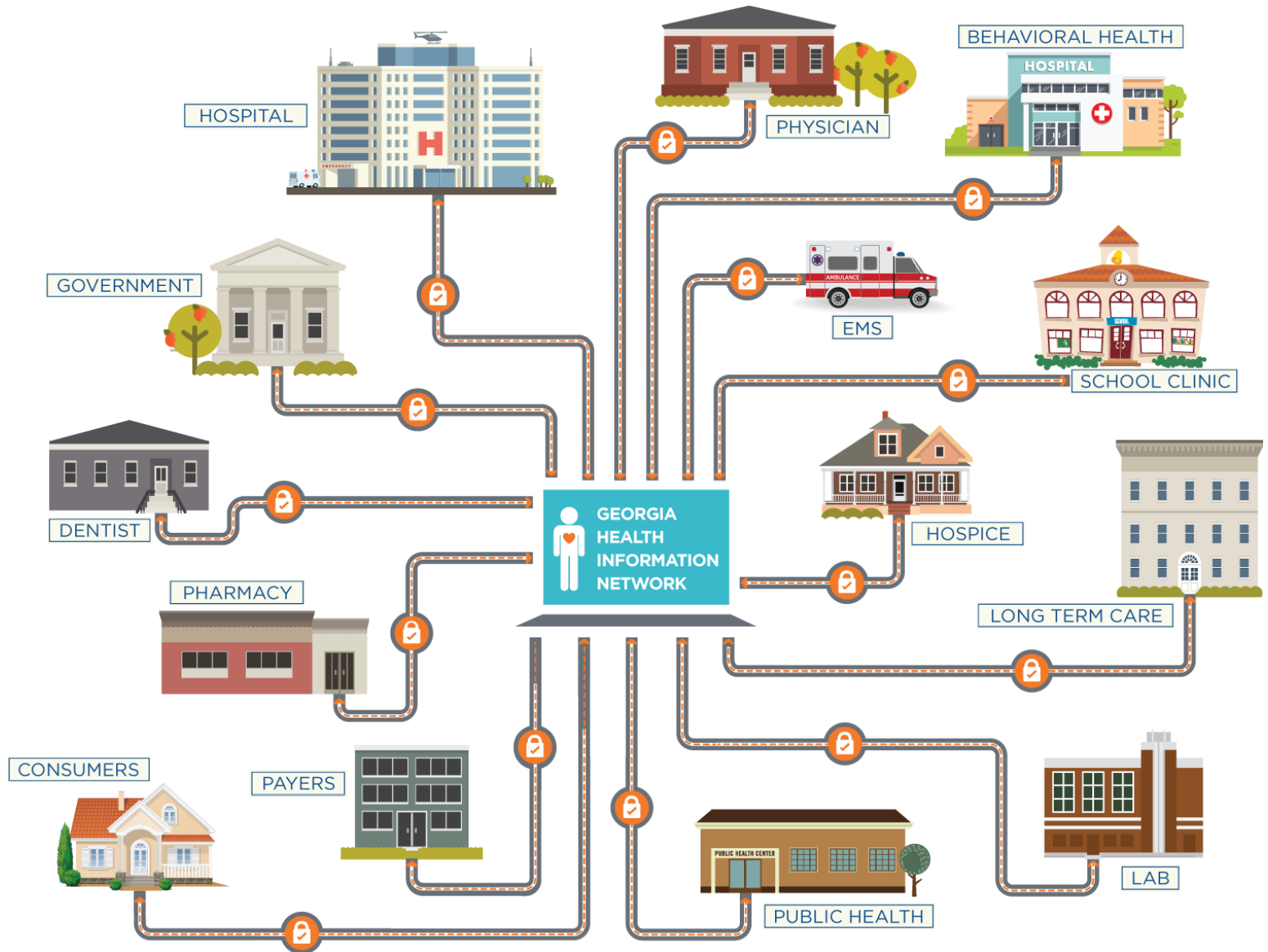
To **close the patient information gap** across care settings by electronically connecting disparate systems and data sources to support improved quality of care, better health outcomes and reductions in cost.



# Georgia Health Information Network



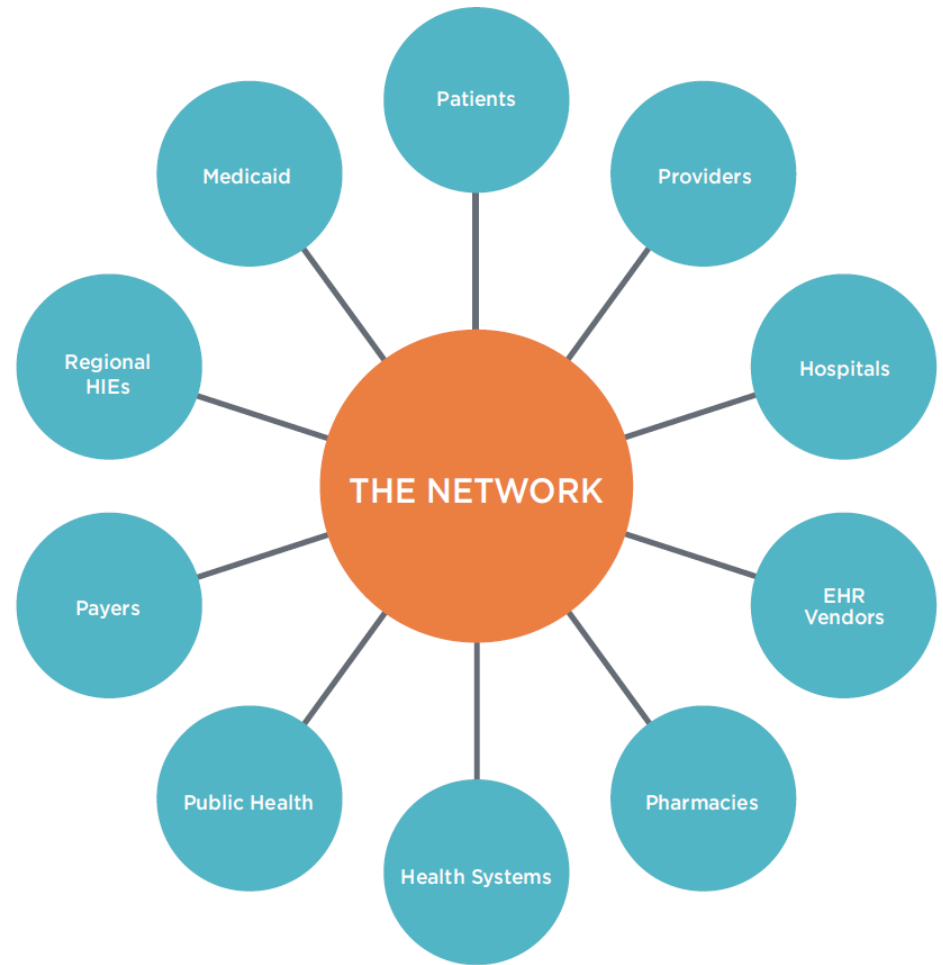
# Statewide Electronic Network





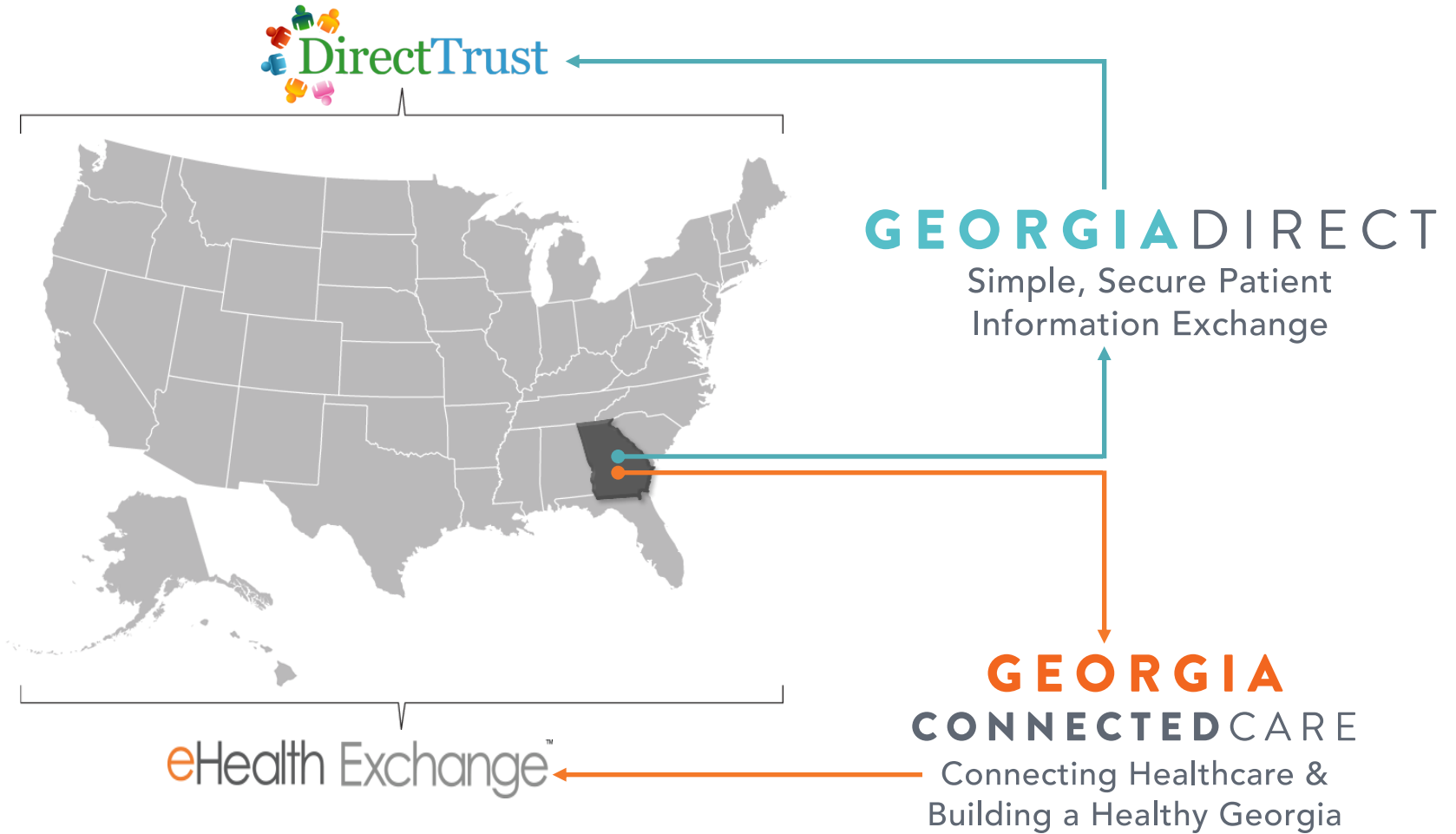
# GaHIN Network Model

- Federated-hybrid model, not a central repository of clinical data
- Patient information remains with the treating provider and only flows when there is authorization
- GaHIN makes an individual data repository available to Members directly connected to the Network





# GaHIN Products and Services





## Basic Data Exchange

Free email messaging service to securely send patient health information to other authorized healthcare professionals

- Attach up to 40 care documents (400 pages)
- Entry-level product for HIE
- Simple to implement





# Sample Inbox

GEORGIA DIRECT

montavia.madison@gadirect.net • Contacts

New Message | Check Mail | Mark As Read | Move To Folder | Delete | Reply | Forward | Print | Save as Draft

Inbox (29) | Processed | Drafts | Sent Items | Trash | Test Messages | Lavitsta

Arranged by: **Date, Descending** search

<input type="checkbox"/>			processed:Test lavistanorcrossclinic@gadirect.net	10:41 AM	2KB
<input type="checkbox"/>			<b>processed:Re: processed:Test</b> lavistanorcrossclinic@gadirect.r	10:36 AM	2KB
<input type="checkbox"/>			processed:Test lavistanorcrossclinic@gadirect.net	Yesterday	2KB
<input type="checkbox"/>			<b>processed:Re: processed:Test</b> lavistanorcrossclinic@gadirect.i	Yesterday	2KB
<input type="checkbox"/>			processed:Test lavistanorcrossclinic@gadirect.net	Oct 13	2KB
<input type="checkbox"/>			<b>processed:Re: processed:Test</b> lavistanorcrossclinic@gadirect.net	Oct 13	2KB
<input type="checkbox"/>			processed:Test lavistanorcrossclinic@gadirect.net	Oct 10	2KB
<input type="checkbox"/>			processed:Test lavistanorcrossclinic@gadirect.net	Oct 09	2KB
<input type="checkbox"/>			<b>processed:Re: processed:Test</b>	Oct 09	2KB

No mess  
Click any message in the list to preview



	<b>2017</b> <small>(as of 10/2017)</small>	<b>CY 2016</b>
Active addresses	<b>5,640</b>	<b>3,189</b>
Member organizations	<b>323</b>	<b>306</b>
Transactions	<b>412,629</b>	<b>421,031</b>





## Robust Integrated Patient Search (Query)

Providers can use their EHR to quickly access patient health data from hospitals, physician practices, state health systems and much more

eHealth Exchange™





	2017 <small>(as of 9/2017)</small>	2016
Connected providers	~10,644	~8,550
Queries	730,920	461,861
Demographic records	28,135,419	21,785,140

eHealth Exchange™



# Connected Organizations

## State Agencies

- GA Medicaid/Department of Community Health (DCH)
- GA Department of Public Health (DPH)
- GA Division of Families and Children Services (DFCS)
- GA Department of Juvenile Justice (DJJ)
- GA Department of Behavioral Health and Developmental Disabilities (DBHDD)

## Health Systems/Hospitals

- Children's Healthcare of Atlanta (Epic)
- Emory Healthcare (Cerner)
- Grady Health System (Epic)
- Gwinnett Health System (RelayHealth)

## Specialty Connections

- Atlanta Gastroenterology Associates (Greenway)
- Georgia Partnership for Telehealth (Azalea)

## Regional HIEs

- Georgia Health Connect (GaHC) (Liaison)
- GRACHIE/Chatham HealthLink (Cerner)
- HealthConnection (Cerner)
- HealthIE Georgia (Azalea)

## Care Management Organizations

- Amerigroup (with IHE)
- CareSource
- Peach State
- WellCare

## National Exchange

- Veterans Health Administration
- Department of Defense
- DaVita Healthcare Partners
- Alabama (AOHR)
- East Tennessee HIE (etHIN)
- South Carolina HIE (SCHIE)
- North Carolina HIE (NCHIEA)



Georgia ConnectedCare Clinical View Screens



# Georgia ConnectedCare Patient Profiles

- Clinical View
  - Census Search
  - Patient Profile
    - Dashboard
    - Summary
    - Reports
      - CCD
    - Labs



# GaHIN Census Search

Dashboard Recent Patients My Patients

## Census

**My Census Definitions**  
All Patients

**Census Search Criteria**

**Demographics**

SSN

Member

ID

Last Name\*

First Name

Middle Name

Date Of Birth

*You must provide at least 1 required (\*) search parameter*

*You must provide at least 2 criteria*

---

Dashboard Recent Patients My Patients

## Census

**My Census Definitions**  
All Patients

**Census Search Criteria**

**Demographics**

SSN

Member

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Last Name\*

First Name

Middle Name

Date Of Birth

*You must provide at least 1 required (\*) search parameter*

*You must provide at least 2 criteria*



# Search Results

Dashboard Recent Patients My Patients  User: kdogle

## Census

GEORGIA CONNECTEDCARE

**My Census Definitions**

All Patients

**Census Search Criteria**

**Demographics**

SSN

Member

ID

Last Name\*

First Name

Middle Name

Date Of Birth

You must provide at least 1 required (\*) search parameter

You must provide at least 2 criteria

Last Name	First Name	Middle Name	DOB	SSN	Member ID
DEMOSKI	HENRY	M	08/01/1981	555-11-1000	<input type="button" value="+"/>

First Page Prev Page Showing 1-1 of 1 rows Next Page Last Page

---

Last Name	First Name	Middle Name	DOB	SSN
DEMOSKI	HENRY	M	08/01/1981	555-11-1000

First Page Prev Page Showing 1-1 of 1 rows Next Page Last Page



# Patient Profile: Dashboard

\* Demoski\_changed, Helen

Age / Gender 65 Female  
DOB 4/21/1950  
MRN N/A

Dashboard Summary Reports Labs Lab Reports

Date Range Aug 17, 2011 to Nov 17, 2015

Update

Organize

### Problems

Name	Type	Date
Valvular Heart Disease	Primary Diagnosis	10/09/2011
ASTHMA NOS	Primary Diagnosis	01/08/2011
ASTHMA NOS	Primary Diagnosis	12/11/2010
ASTHMA NOS	Primary Diagnosis	09/27/2010
TRACHEA/BRONCHUS DIS NEC	Primary Diagnosis	07/27/2010
TRACHEA/BRONCHUS DIS NEC	Primary Diagnosis	07/27/2010

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### Encounters

Type	Date	Primary Diagnosis	Provider
	03/27/2015		
	11/03/2013		Bob Johnson
	11/02/2013	Valvular Heart Disease	Bob Johnson
	01/08/2011	ASTHMA NOS	
	12/11/2010	ASTHMA NOS	Sheila White
	09/27/2010	ASTHMA NOS	Sheila White

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### Medications

Start Date	Stop Date	Medication	Indication	Order Date
------------	-----------	------------	------------	------------

### Reports

Date	Note Type	Summary	Provider
------	-----------	---------	----------

### Lab Results

Date	Type	Value	Acuity	Trend
11/05/2013 23:...	WBC	16.6	H	
11/05/2013 23:...	HGB	10.2	L	
11/05/2013 23:...	HCT	28.6	L	
11/05/2013 23:...	BUN	26	H	20-26

Page 1 of 5 View 1 - 4 of 20

### Providers

Date Last S...	Name	Specialty	Npi	Relationship	Phone	Fax
	Ken Green			Attending Physi...		
	Ken Green			Attending Physi...		
	Ken Green			Attending Physi...		
	Sheila White			Attending Physi...		

Page 1 of 2 View 1 - 4 of 8

### Immunizations

Dose Date	Medication Name	Dose
No immunizations found		

Page 1 of 0



# Patient Profile: Summary Page

[Dashboard](#)
[← Census](#)
[Recent Patients](#)
[My Patients](#)

User: adclinician

**\* Demoski\_changed, Helen**

**GEORGIA**  
CONNECTEDCARE

Age / Gender 65 Female  
 DOB 4/21/1950  
 MRN N/A

[Dashboard](#)
[Summary](#)
[Reports](#)
[Labs](#)
[Lab Reports](#)
[Encounter Journal](#)

2008	2009	2010	2011	2012	2013	2014	2015
<b>GROUPED PROBLEMS</b>							
Infections - ENT Ex Otitis Med <span style="float: right;">HEENT</span>							
Infections - Eye							
Asthma <span style="float: right;">Respiratory</span>							
Respiratory Disord, NEC							
Fracture/Disloc - Upper Extrem <span style="float: right;">Skin/Musculoskeletal</span>							
<b>UNGROUPED PROBLEMS</b>							
Valvular Heart Disease <span style="float: right;">Circulatory</span>							
<b>PRIMARY PROBLEMS</b>							
PURULENT ENDOPHTHALM NOS <span style="float: right;">Psych/Nervous System</span>							
Valvular Heart Disease <span style="float: right;">Circulatory</span>							
ACUTE SINUSITIS NOS <span style="float: right;">Respiratory</span>							
ASTHMA NOS							
TRACHEA/BRONCHUS DIS NEC							
COLLES' FRACTURE-CLOSED <span style="float: right;">Injury/Poisoning</span>							
FX RADIUS NECK-CLOSED							
<b>PROCEDURES</b>							
Aortic Valve Replacement <span style="float: right;">H</span>							
CLINIC VISIT/ENCOUNTER							
E/M OFFICE/OP SERV EST PATIENT L...							
NONINVASIVE EAR PULSE OXIMETRY... <span style="float: right;">E</span>							
OPHTHALMOLOGICAL SVC COMPREH...							
RADIO EXAM ELBOW COMP MINIMUM...							
RN SERVICES UP TO 15 MINUTES							
TREAT CLOS RAD HEAD/NECK FX W/... <span style="float: right;">E</span>							
VITAL CAPACITY TOTAL							
<b>PROVIDERS</b> <span style="float: right;">LIST</span>							

Filter by Data Sources:  H Inpt  E ER  Clinic/Office  Home/Hospice

View: Patient Overview



# Patient Profile: Summary Page

- Data Source

**H** Inpt   **E** ER   **■** Clinic/Office   **◆** Home/Hospice

- Details available

PROCEDURES			
Aortic Valve Replacement			
CLINIC VISIT/ENCOUNTER			
E/M OFFICE/OP SERV EST PATIENT L...			
NONINVASIVE EAR PULSE OXIMETRY...			
OPHTHALMOLOGICAL SVC COMPREH...		■	
RADIO EXAM ELBOW COMP MINIMUM...		■ ■	
RN SERVICES UP TO 15 MINUTES			■
TREAT CLOS RAD HEAD/NECK FX W/...		E	
VITAL CAPACITY TOTAL			■

Procedure: CLINIC VISIT/ENCOUNTER ✕  
Type: Primary

PROVIDERS			
Green, Ken (Attending Physician) ?		■ ■ ■	
Johnson, Bob (Attending Physician) ?			
Walgreens #18713 (ServiceOrganizat...			
White, Sheila (Attending Physician) ?			

**10/30/2009** ✕  
Data Source: GAMedicaid  
Problems: Primary Diagnosis: TRACHEA/BRONCHUS DIS NEC, FX RADIUS NECK-CLOSED  
Procedures: RADIO EXAM ELBOW COMP MINIMUM THREE VIEW  
Providers: Attending Physician: Ken Green

MEDICATIONS			
HYDROCORTISONE 0.2% CREAM	■		
NORVASC 5MG TABLET		■	

IMMUNIZATIONS



# Longitudinal Filtered

Dashboard Recent Patients My Patients Search User: kdogle

**Demoski, Helen** Age / Gender 28 Female  
DOB 8/27/1987  
MRN N/A

Dashboard Reports Labs Lab Reports Encounter Journal Summary

2008 2009 2010 2011 2012 2013 2014 2015

2009 2010 2011 2012 2013 2014

**GROUPED PROBLEMS**

- Infections - ENT Ex Obitis Med
- Infections - Eye
- Asthma
- Respiratory Disord, NEC
- Fracture/Disloc - Upper Extrem
- Ungrouped

**UNGROUPED PROBLEMS**

- Valvular Heart Disease

**PRIMARY PROBLEMS**

- CYSTICERCOSIS
- PURULENT ENDOPHTHALM NOS
- Valvular Heart Disease
- ACUTE SINUSITIS NOS
- ASTHMA NOS
- TRACHEA/BRONCHUS DIS NEC
- COLLES' FRACTURE-CLOSED
- FX RADIUS NECK-CLOSED
- PARAL POLIO NEC-TYPE NOS

**PROCEDURES**

- Aortic Valve Replacement
- CLINIC VISIT/ENCOUNTER
- E/M OFFICE/OP SERV EST PATIENT LE...
- INJECTION OR INFUSION OF CANCER...
- NONINVASIVE EAR PULSE OXIMETRY...
- OPHTHALMOLOGICAL SVC COMPREHE...
- RADIO EXAM ELBOW COMP MINIMUM...
- RN SERVICES UP TO 15 MINUTES

CHOA1  
CHOA  
EMORY1  
GAHC1  
GAMedicaid  
GRADY1  
Truven  
CareEvolution XForm Record Authority

List List



# Reports List – Immunization Selected

**Demoski, Henry M** | Age / Gender 34 Male | DOB 8/1/1981 | MRN N/A

**Reports** | Group By: Group Year

Expand All Collapse All

Q

ALL REPORTS

- 11/20/2015 11:24 Georgia Immunization Summary
- 11/20/2015 11:24 Emory Aggregated CCD
- 11/20/2015 11:24 CHOA Patient Summary
- 11/20/2015 05:52 AmerigroupC62v2
- 11/20/2015 05:51 UnstructuredCCDA
- 10/29/2015 06:19 AmerigroupTestDoc
- 08/27/2015 12:50 Summarization of Episode Note
- 08/06/2015 10:31 GAHIN Web Client: Patient Consent Document
- 08/06/2015 10:21 GAHIN Web Client: Patient Consent Document
- 07/30/2015 23:47 The Longstreet Clinic Clinical Summary
- 07/30/2015 23:47 The Longstreet Clinic Clinical Summary
- 06/21/2015 23:25 The Longstreet Clinic Clinical Summary
- 06/17/2015 04:21 The Longstreet Clinic Clinical Summary
- 06/17/2015 04:19 The Longstreet Clinic Clinical Summary
- 06/01/2015 10:50 GAHIN Web Client: Patient Consent Document
- 05/29/2015 03:43 The Longstreet Clinic Clinical Summary

**Demoski, Henry M** | User: kdogle | GEORGIA CONNECTEDCARE

Dashboard | Reports | Labs | Lab Reports | Encounter

**Reports** | Group By: Group Year

Expand All Collapse All

Q

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- 06/01/2015 10:50 GAHIN Web Client: Patient Consent Document
- 05/29/2015 03:43 The Longstreet Clinic Clinical Summary



# Reports List: CCD Selected

**Dashboard** ← **Census** **Recent Patients** **My Patients**

**Demoski, Henry M**

Age / Gender: 34 Male  
DOB: 8/1/1981  
MRN: N/A

**Dashboard** **Reports** **Labs** **Lab Reports** **Encounter** **Journal** **Summary**

**Reports** Group By: Group Year  
Expand All Collapse All

▼ ALL REPORTS

- 11/20/2015 10:56 Georgia Immunization Summary
- 11/20/2015 10:56 Emory Aggregated CCD**
- 11/20/2015 10:56 CHOA Patient Summary
- 11/20/2015 05:52 AmerigroupC62v2
- 11/20/2015 05:51 UnstructuredCCDA
- 10/29/2015 06:19 AmerigroupTestDoc
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**Dashboard** ← **Census** **Recent Patients** **My Patients**

**Demoski, Henry M**

User: kdogle  
GEORGIA CONNECTEDCARE

**Dashboard** **Reports** **Labs** **Lab Reports** **Encounter**

**Reports** Group By: Group Year  
Expand All Collapse All

▼ ALL REPORTS

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- 06/17/2015 04:19 The Longstreet Clinic Clinical Summary
- 06/01/2015 10:50 GAHIN Web Client: Patient Consent Document
- 05/29/2015 03:43 The Longstreet Clinic Clinical Summary



# Patient Profile: CCD

## Continuity of Care Document

Created On: August 28, 2015

**Patient:** HENRY DEMOSKI ,  
225 BAKER ST  
ATLANTA, GA, 30313  
4045554000

**Birthdate:** August 1, 1981

**Race:**

**Preferred Language:** Information not available

**Care Team Member(s):**

**Guardian:**

**Other Caregiver(s):**

**Patient ID:** 0000430229

**Sex:** Male

**Ethnicity:**

**Next of Kin:**

**Emergency Contact:**

### Table of Contents

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- [Allergies, Adverse Reactions, Alerts](#)
- [Immunizations](#)
- [Results](#)
- [Vital Signs](#)
- [Encounters](#)
- [Procedures](#)

### Allergies, Adverse Reactions, Alerts

Substance	Category	Reaction	Severity	
codeine	Drug allergy	Hives	Medium	Dr
egg-containing compound	Drug allergy	Abdominal Pain		Dr

### Immunizations

Immunization	Date Given	Site	Status	
hepatitis B adult vaccine<sup>1</sup>	05/21/2015	Arm Left	completed	F
influenza virus vaccine, inactivated<sup>2</sup>	01/01/2015	Arm Right	completed	F

### Results

Order Name	Results	Value	Reference Range	Date	Interpretation
ANES NTE	ANES NTE	Testing		07/28/2015	

### Vital Signs

Vital Sign	Value
Temperature Source	Oral  </br>(5/21/15 2:02 PM)
Resp	20 br/min
O2 Sat	98 %
Systolic BP	120 mmHg



# GaHIN Value-Added Products and Services

- Medical image exchange
- Laboratory results delivery
- Medication fill history
- Public health registries
- Directed Exchange/Secure Messaging Provider Directory
- Care Plan Exchange
- Event/Encounter Notification (ADTs)



## Project Highlights

- Care Plan Exchange & ADT Care Alerts
- School-Based Health Clinics in Rural Communities
- Georgia Justice Information Sharing Initiatives
- Georgia Prescription Drug Monitoring Program
- Value in HealthCare Atlanta Heart Failure Project
- GeorgiaDirect Outreach/Use Cases:
  - Long-Term Care, EMS, Pharmacies, Behavioral Health, FQHCs, Public Health District Offices, Community Health Organizations, Health systems, Dentists, Dialysis & Asthma clinics, VA Claims Processing



# Georgia Health Connect (GAHC), Health Information Exchange (HIE)

## Overview

*Dominic H. Mack MD, MBA*

*Professor, Dept. of Family Medicine*

*Director National Center for Primary Care*

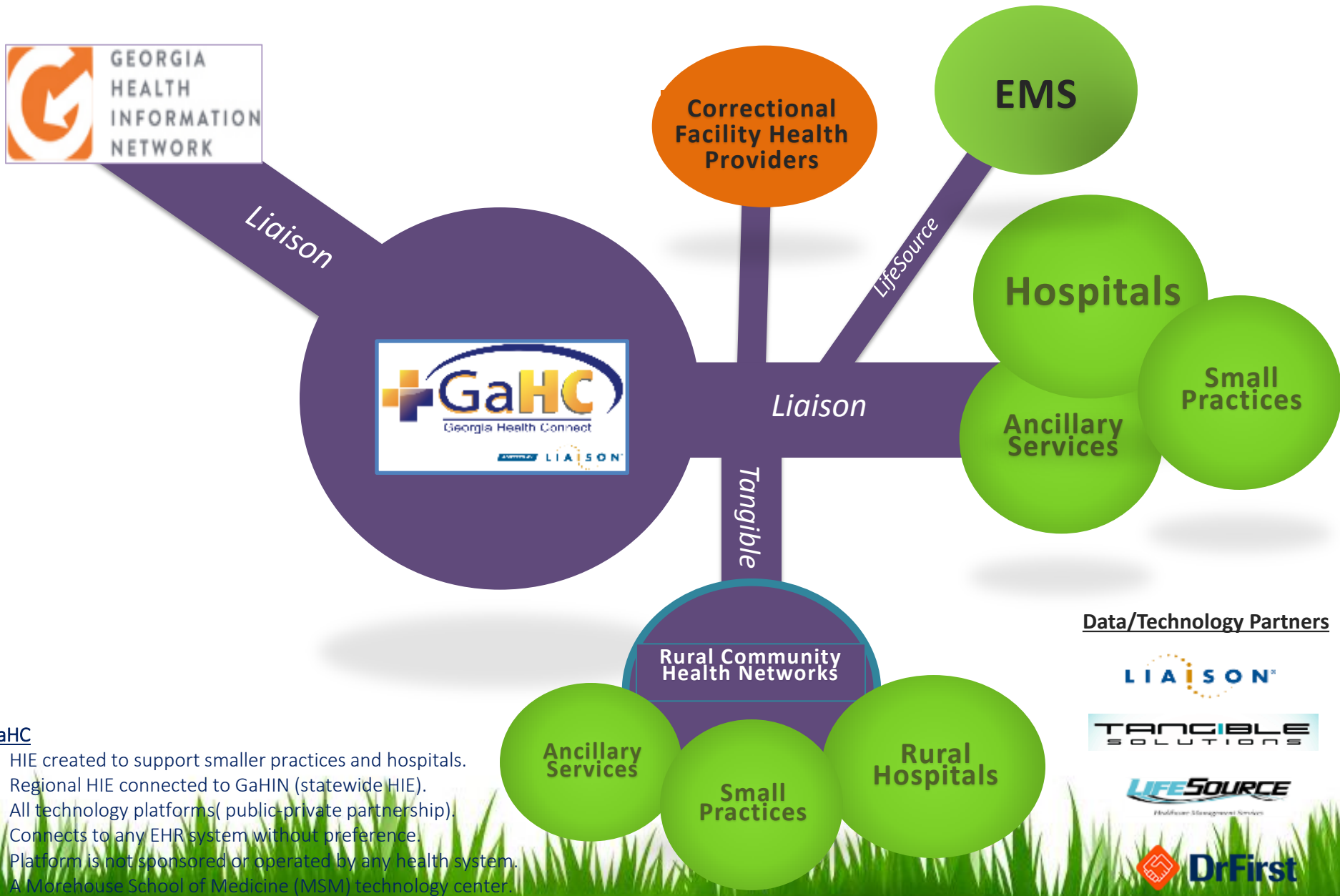
*Executive Medical Director GaHITEC, GAHC*

*Morehouse School of Medicine*

*Office-[4047568960](tel:4047568960) Cell-[4044083201](tel:4044083201)*

Georgia Health Information Network

# Georgia Health Connect (GAHC), Health Information Exchange (HIE)



## GaHC

- o HIE created to support smaller practices and hospitals.
- o Regional HIE connected to GaHIN (statewide HIE).
- o All technology platforms( public-private partnership).
- o Connects to any EHR system without preference.
- o Platform is not sponsored or operated by any health system.
- o A Morehouse School of Medicine (MSM) technology center.

## Data/Technology Partners



# QUESTIONS??

Denise Hines, DHA, PMP, FHIMSS

Executive Director, GaHIN

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[info@gahin.org](mailto:info@gahin.org)

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Georgia Health Information Network