



# NORTH CAROLINA HEALTH INFORMATION EXCHANGE AUTHORITY

Overview for BH EHR grantees – January 11, 2019

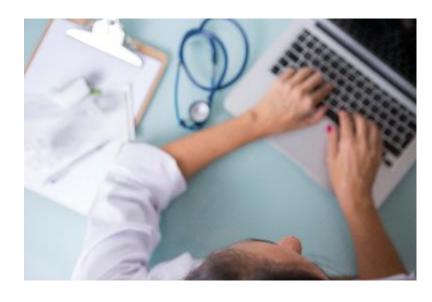
Vanessa R. Green, MOR, MBA NC HIEA Health Analytics Lead

Kenya Servia, MPA
Business Development & Outreach Specialist - NCHIEA



# **North Carolina Health Information Exchange Authority**

## **Overview of Topics**





- Health Information Exchange Overview
- What is NC HealthConnex
  - **Connection Process**
- Value of Integrating Behavioral Health & Primary Care Data
- **Use Case**
- Suite of Services
  - Questions





We connect health care providers to safely and securely share health information through a trusted network to improve health care quality and outcomes for North Carolinians.



North Carolina's statedesignated health information exchange



SECURE

Secure statewide network for physicians and other health care providers in North Carolina to share important patient health information to improve patient care



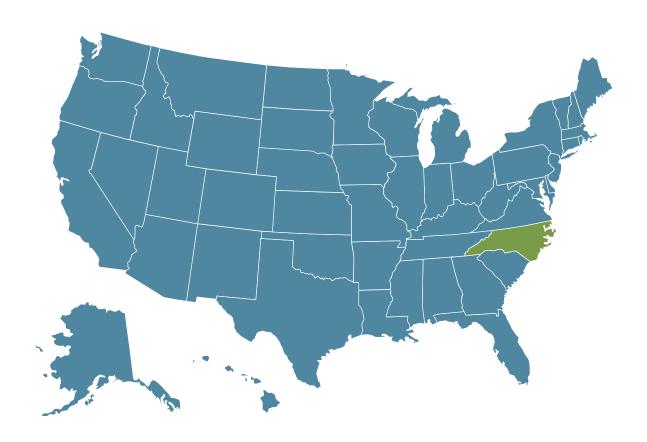
Housed within the Department of Information Technology's Government Data Analytics Center (GDAC). Our technology partner is SAS Institute.



## **The Vision for Connectivity**

North Carolina set out a vision to create communities of connected health care providers electronically across the state.

- Allow providers to view their patients' longitudinal health record in real-time
- Improve health care quality, enhance patient safety, improve health outcomes
- Consolidate data reporting requirements across the state to ease administrative burden and create efficiencies by eliminating duplicative data integrations
- Create outbound services to give providers insight to their at risk patient population



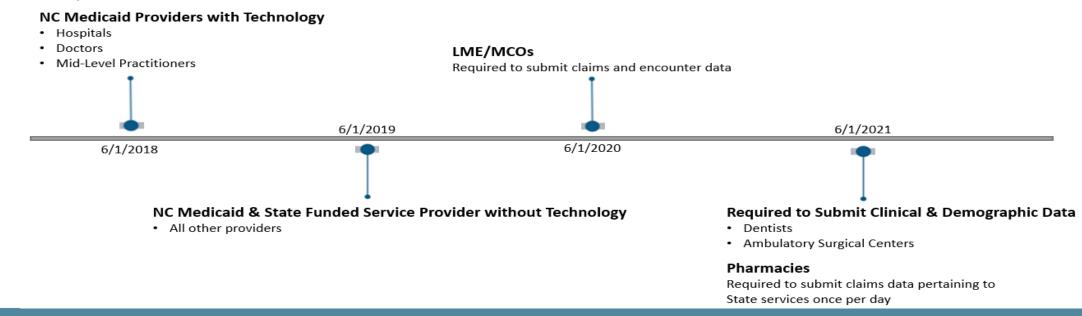


#### What Does the Law Mandate?

Hospitals as defined by G.S. 131E-176(3), doctors (licensed to practice under Article 1 of Chapter 90 of the General Statutes), and mid-level practitioners who provide Medicaid services and who have an electronic health record were required to connect by June 1, 2018.

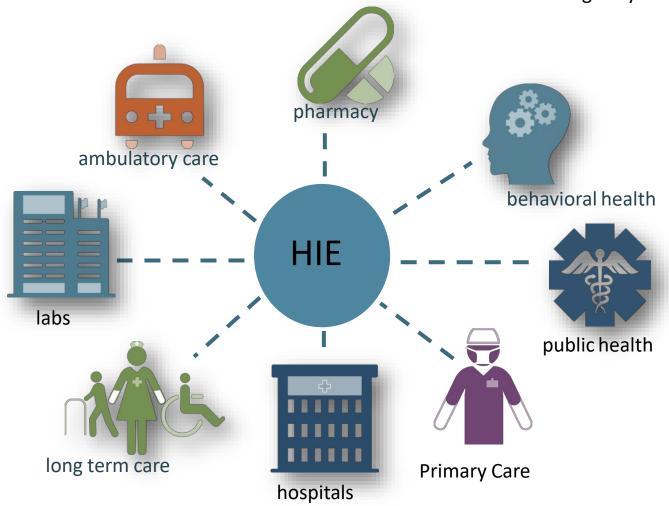
All other providers of Medicaid and state-funded services shall connect by June 1, 2019 except;

- Dentists and ambulatory surgical centers are required to submit clinical and demographic data by June 1, 2021
- Pharmacies are required to submit claims data pertaining to State services once per day by June 1, 2021 using pharmacy industry standardized formats



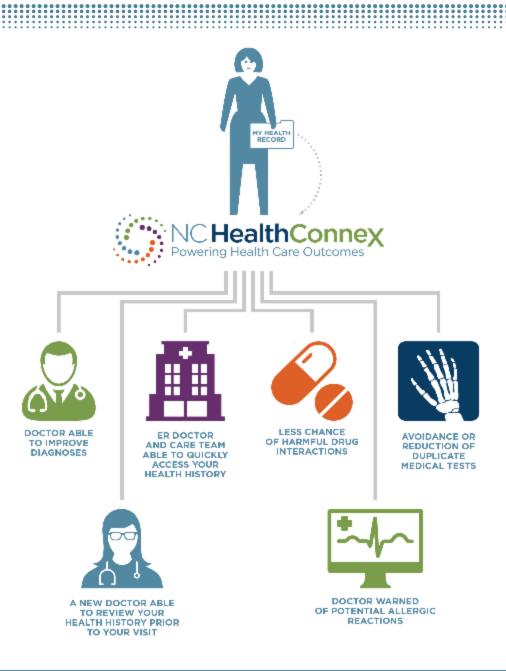
# What is Health Information Exchange (HIE)?

A Health Information Exchange (HIE) is a secure, electronic network that gives authorized health care providers the ability to access and share health-related information across a statewide information highway.





What are the clinical benefits of an HIE?



- A full "picture" of a person's health, including visits, hospitalizations and medications
- Improved, more accurate and timely medication reconciliation that reduces errors and avoids unnecessary tests
- Instant access to a full panel of test results, reducing errors and gaps in treatment



# **How Does Health Information Exchange Work?**



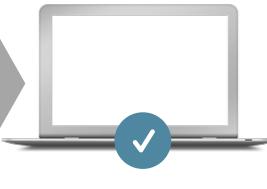
Electronic Health Record
Clinicians enter data into EHR and
that data is pulled into HIE





#### **Data Provided**

Clinicians who have care relationships with their patients are able readily access that data





#### **Elements Available**

Current data elements available in NC HealthConnex include: Allergies, Encounters, Immunizations, Medications, Problems, Procedures, Results



#### **Security in Place**

All data is protected, stored and accessed only for purposes permissible under federal and state law.



# **Significant Progress**

# Number of Connected FacilitiesSpring 2016Spring 2017Summer 2018108 Facilities877 Facilities4500+ FacilitiesNumber of Facilities in the Onboarding Process201620172018158 Facilities578 Facilities3800+ Facilities



## What Data Elements Will You Need to Submit?

#### The NC HealthConnex Data Target

We aim to collect all Meaningful Use Data Elements





#### **How Do Providers Meet the Mandate?**

There are two steps to determine a practice's readiness for connection.

- 1. Does your practice have an EHR that can send CCD or HL7 messages?
  - **Technology in Place:** The NC HIEA Participation Agreement requests EHRs that are minimally capable of sending HL7 messages, version 2 and higher.
- 2. Does your practice have a Participation Agreement in place?
  - The Participation Agreement is the document that governs the exchange of data between the practice and NC HealthConnex. This contract must be in place before the technical build can begin. Participation Agreements are linked on our website for providers to download, sign and return.



# **NC HealthConnex Participation Agreement**

The contract governing data sharing between the NC HIEA and Health Care Organization

## How do I complete?

Log on to:

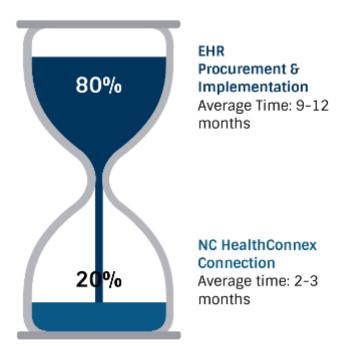
nchealthconnex.gov/how-to connect

- ✓ Complete the Participation Agreement
- ✓ Submit to <a href="mailto:hiea@nc.gov">hiea@nc.gov</a>



#### Now is the time to consider an EHR

In order to meet the June 1, 2019 deadline



NC HealthConnex works with EHR vendors who, at minimum, can send HL7 messages. The list of EHR vendors currently working with NC HealthConnex is available on our website at <a href="https://www.nchealthconnex.gov">www.nchealthconnex.gov</a>

- Aprima
- AYM Technologies
- Credible Behavioral Health
- eMed Solutions (eNotes)
- Integrity- Checkpoint
- Mediware- AlphaFlex
- Patagonia
- The Echo Group
- Therap
- Practice Fusion
- AllScripts
- Athena
- Echo
- Epic
- Greenway
- NextGen
- Office Ally
- ICAN Solutions
- Icanotes, LLC
- InSync Healthcare
- MediTab

- NetSmart
- PaceNet
- TheraSoft
- Ethos Sys., Eclipse
- Fellowship
- Harris Computers
- Lauris Online
- Valant
- Pangaea
- Celerity, LLC
- Paragon
- Simple Practice
- ShareNotes
- OTHER(s)



# **How Do Providers Connect: The Participation Agreement**

#### Attachment 2

#### **Participant Staff Contact Information**

Please provide contact information for the following staff members at your organization. Each field must be filled even if one person occupies more than one role. All fields must be completed or the processing of your Participation Agreement will be delayed.

Participant Account Administrator
Staff member who will be the point of contact for the NC HIEA for communications and credentialing NC HealthConnex users in your organization.
Name:
Position Title:
Email Address:
Phone Number:
Mailing Address:
Technical Services Contact
Staff member who will work with our technology vendor to build a connection from your organization to
NC HealthConnex.
Name:

Participant Background Information				
<ol> <li>Type of facility or system: Please select all that apply below.</li> </ol>				
Hospital, Health System, or Regional HIE  Ambulatory/ Outpatient Clinic		boratory Pharma	Other Please specify:	
2. Provider type: This field is not required if your org	ganization is a Hosp	pital, Health System, Regio	mal HIE, Laboratory, or Pharmacy	
Primary Care	Dental or 0	Orthodontic	Respiratory, Developmental, Rehabilitative or Restorative	
Pediatrics	Residential	l Facility	Speech, Language and Hearing	
OB/GYN	In Home C C/DA, etc.	are, e.g. PCS, CAP-	Other Please specify:	
Behavioral Health	Eye & Visi	ion		
3. Participant Organization Nati Identifier (NPI):	onal Provider			
4. How many Participating Entit facility locations does your orga If you have any PEs or more than a location, please complete Attachme	nization have? ne facility			
5. Is your provider or health systems, please select all that apply a	tem a part of one		Yes No	
Health system				
Regional HIE				
Accountable Care Organiza	tion			
Clinically Integrated Netwo	rk			
Substance Use Disorder Treatment Information				
Does your organization or any unit within your organization provide Substance Use Disorder treatment?		Yes No		
7. If yes to 6, does your organization fall under 42 C.F.R. Part 2? If unsure, please contact your legal counsel and visit the SAMHSA website at www.SAMHSA.gov		Yes No		
Electronic Health Record (EHR Vendor) Information Please discuss these questions with your Technical Services Contact				
9 EUD Vander:	•			

Position Title: Email Address: Phone Number:

#### Participant Address for Notice

	Primary Contact	Alternate Contact Not required
Name		
Title		
Organization		
Address		
City, State Zip		
Phone		
Fax (not required)		
E-mail		



#### Participant Account Administrator

Staff member who will be the point of contact for the NC HIEA for communications and credentialing
NC HealthConnex users in your organization.
Name:
Position Title:
Email Address:
Phone Number:
Mailing Address:
Technical Services Contact
Staff member who will work with our technology vendor to build a connection from your organization to
NC HealthConnex.
Name:
Position Title:
Email Address:
Phone Number:
Mailing Address:



	Participant Background Information
Attachment 3	1. Type of facility or system: Please select all that apply below.
	Hospital, Health System, or Regional HIE  Ambulatory/ Outpatient Clinic  Laboratory Pharmacy Other Please specify Other Please specify
	2. Provider type: This field is not required if your organization is a Hospital, Health System, Regional HIE, Laboratory, or Pharmac
	Primary Care Dental or Orthodontic Respiratory, Development Rehabilitative or Restorate
	Pediatrics Residential Facility Speech, Language and Hearing
	OB/GYN In Home Care, e.g. PCS, CAP- Other Please specify:
	Behavioral Health Eye & Vision
	3. Participant Organization National Provider Identifier (NPI):
	4. How many Participating Entities (PEs) or facility locations does your organization have?  If you have any PEs or more than one facility location, please complete Attachment 4
	5. Is your provider or health system a part of one or more the following? Yes No If yes, please select all that apply and list the name of the organization(s).
	Health system
	Regional HIE
	Accountable Care Organization
	Clinically Integrated Network

Substance Use Disorder Treatment Information		
6. Does your organization or any unit within your organization provide Substance Use Disorder treatment?	Yes No	
7. If yes to 6, does your organization fall under 42 C.F.R. Part 2?  If unsure, please contact your legal counsel and visit the SAMHSA website at www.SAMHSA.gov	Yes No	

Electronic Health Record (EHR Vendor) Information  Please discuss these questions with your Technical Services Contact			
8. EHR Vendor:			
9. EHR Vendor Product & Version:			
10. Hosting Location:	On-site Cloud-based  Hub/server on-site at another location  Other:		
11. EHR Vendor Contact Name:			
12. EHR Vendor Contact Email:			
13. EHR Vendor Contact Phone Number:			

State Funding Information				
14. Do you accept and receive reimbursement from NC Medicaid?	Yes No			
15. If yes to 14, do you receive reimbursement through a Managed Care Organization (MCO) or Local Management Entity (LME)?	Yes No If yes, please specify:			
16. Do you accept and receive reimbursement from NC State Health Plan?	Yes No			
17. Do you receive any other funds from the State of North Carolina for the provision of health services, including grants?	Yes No			
н	IE Features			
18. NC HIEA offers Direct Secure Messaging (DSM) at no cost. Would you be interested in learning more about these services?	Yes No			
19. Would your organization be interested in connecting to the NC Immunization Registry through NC HealthConnex?	Yes No			



## **Attachment 4 – Participating Entities**

	Legal Entity Name	Address	Organization NPI	Participant Account Administrator	Email	Phone
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

#### **Connection Process**



1. Sign Participation Agreement

Welcome Packet sent with Patient Education, FAQs, and Talking Points

2. Initial Communication

SAS Technical Team initiates

- 3. Technical Onboarding Call
- 4. Portal Credentials Issued (upon request until February 15)
  Full Participation Agreements only
- 5. Connection Development and Testing
- 6. Live in Production

Participant receives "Live Connection Email" Training and Patient Education information

7. Operations and Support

Ongoing from SAS Helpdesk Team

8. EHR Rollout

Cloud or Web-Based EHRs





Once a Participation Agreement is signed by a health care provider, Patient Education materials are provided to that organization via email, which includes a sample Notice of Privacy Practices.

Providers and patients also have easy access to Patient-Opt out materials on the NC HealthConnex website.

Providers generally have around 3 months after they sign a PA before they are connected to NC HealthConnex. Providers can use this time to educate their patients about the new relationship between your practice and NC HealthConnex.

All NC HIEA Policies are posted on our website, nchealthconnex.gov.



# What are some of NC HealthConnex Participants' challenges?



- Knowing where their patients receive care outside of their Organization or EHR
- Limited patient search capabilities in the clinical portal -- Finding events in the HIE requires the Provider explicitly search for a Patient
- Ensuring and supporting successful transitions of care if they are <u>not</u> notified of events in a timely manner



## **Meet Lisa**



- 5-year old girl who suffers from Type I diabetes and two other chronic comorbidities.
- Lisa has frequent visits with a variety of clinical specialists across the state



## **Meet Lisa**



- 5-year old girl who suffers from Type I diabetes and two other chronic comorbidities.
- Lisa has frequent visits with a variety of clinical specialists across the state
- Lisa's family & care team are struggling to keep up with all of her varied health care information across her care continuum.



## **Meet Lisa**



How Can NC
HealthConnex
help Lisa and her
family?



## **Suite of Services**

#### **Exchange**



Flexible Delivery
Custom delivery methods
integrate into varied
provider workflows

#### **Notify**



NC\*Notify
Notifies providers as their
patients receive services
across the care continuum

#### **Communicate**



Direct Secure Message Connection with other providers by sending and receiving secure, encrypted messages.

#### **Connect**



Provider Directory
More than 21,000 secure
messaging addresses of
health care providers

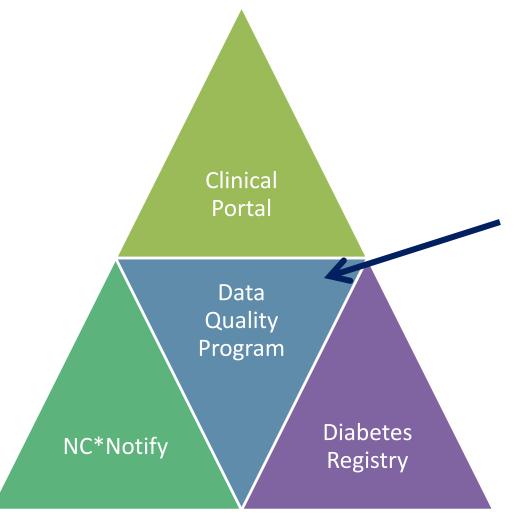
#### Contribute



Public Health Reporting
Diabetes Public Health
Registry and NC
Immunization Registry (help
providers meet MU/MIPS)



## **Current Services Available**



#### **Data Quality Program**

- Support NC HealthConnex Onboarding Process
- Ensure real-time notification of data delivery issues
- Educate and support Participants trying to improve their data to support Quality Improvement and other initiatives
- Confirm data is aligned with policies that ensure high-quality and accurate data outputs

Foundational element that supports ALL Services



# **Data Quality – Participant Onboarding**

STATUS	DATA	ALERT
Pass	Patient Information	0 of 32 records contained insufficient Patient info
Fail	Provider Information	16 of 32 records contained insufficient Provider info
Fail	Facility Information	32 of 32 records contained insufficient Facility info

During Onboarding to NC HealthConnex, Participants are alerted when there is a problem with required data elements.

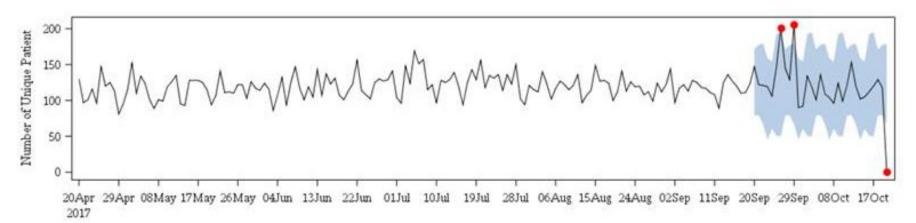
In addition, Participants can drill-down to see the specific Provider and Facility information that is missing.

Participants are also able to look-up the specific clinical documents/messages that contained insufficient information.

Variable	Percent of Records Popu	lated	
Provider NPI	50.00%		
Provider Last Name	100.00%	CCD	CCD
Provider Middle Name	50.00%	ID	Extension
Provider First Name	100.00%	1	1_1_100_1_1
Provider Address	50.00%	2	1_1_100_1_2
Provider City	0.00%	3	1_1_100_1_3
		4	1_1_100_1_4



# **Data Quality – Ongoing Monitoring**



Participants are provided a monthly report that alerts them to anomalies in their data submitted to NC HealthConnex.

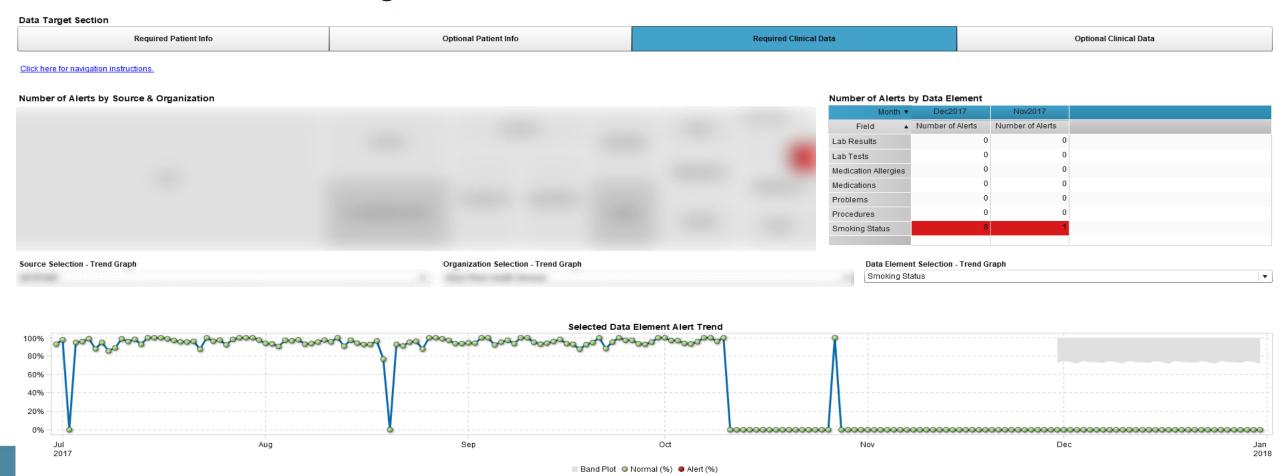
Potential problems are listed along with suggested priority for these problems, and allows for drill-down to see detail.

STATUS	PROBLEM	Number of Days
Critical	Abnormal amount of documents submitted	4
Critical	Abnormal amount of patients	3
Needs Review	Drop in percent of documents populating Care Plan	1
Needs Review	Drop in percent of documents populating Reason for Visit	2

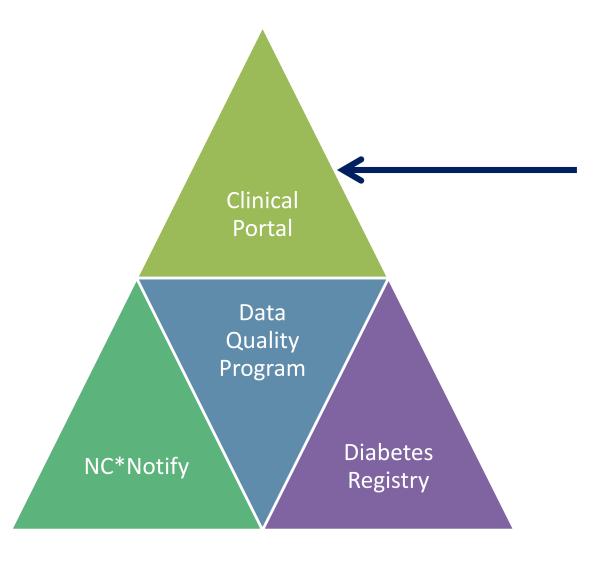
Problem	Date Occurred	Day of Week	Median Value	Current Value
Abnormal amount of patients	20OCT2017	Friday	123	0
Abnormal amount of documents submitted	20OCT2017	Friday	126.5	0
Abnormal amount of documents submitted	12OCT2017	Thursday	132.5	307

# Data Quality – Ongoing Monitoring (cont.)

NC HealthConnex monitors data submissions overall, and by Sending Source and Organization. In the example below, one Organization stopped sending Smoking Status – one of the required elements from the Data Target.



## **Current Services Available**

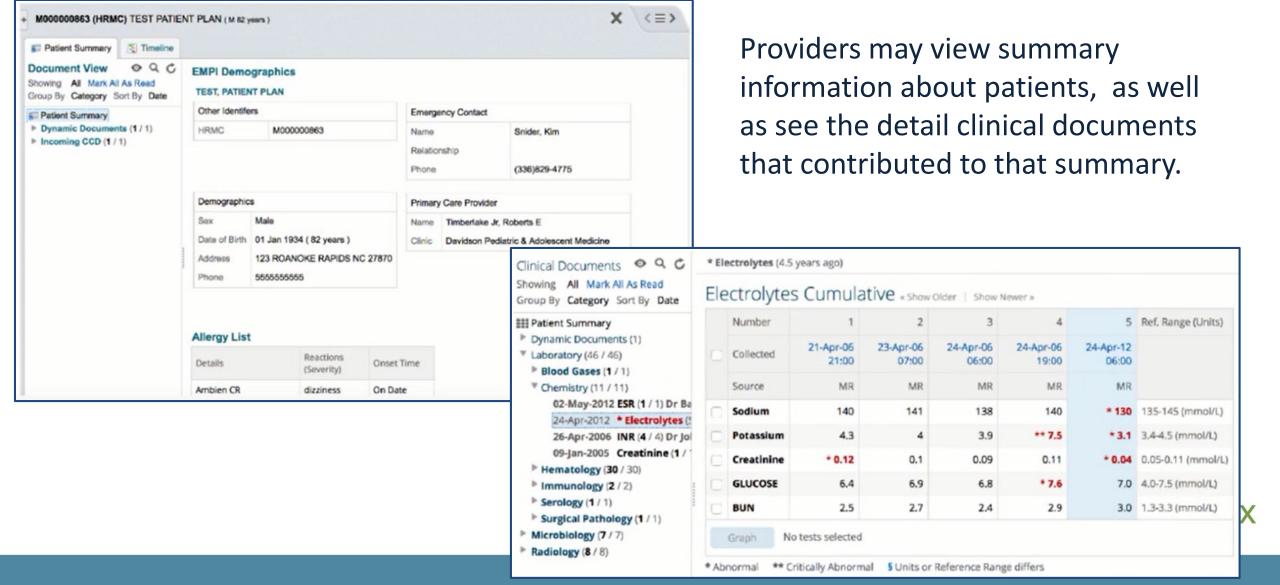


#### **NC HealthConnex Clinical Portal**

- State-wide, longitudinal view of a patient's medical record across different care providers, health systems, etc.
- Access to Direct Secure Messaging (DSM)



## **NC HealthConnex Clinical Portal**



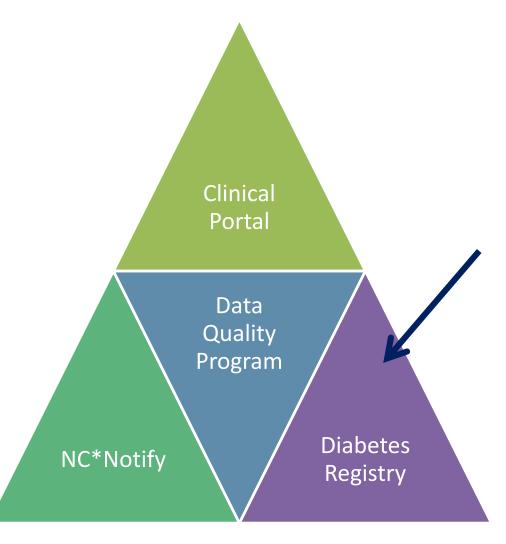
# Lisa's relationship to the Clinical Portal



- Lisa's care continuum extends across the state of NC.
- Lisa's providers are often in different networks, but are able to leverage NC HealthConnex's Clinical Portal to see all of Lisa's encounters, medications, allergies, diagnoses, etc.
- Full and in-depth view of Lisa's longitudinal patient record.



## **Current Services Available**



#### **Diabetes Disease Registry**

- Partnership between the NC DHHS's DPH and NC HealthConnex.
- Starting June 1, supports attestation for Meaningful Use Stage 3 and Modified Stage 2 for eligible hospitals, eligible critical access hospitals, and eligible professionals as well as Medicare Quality Payment Program Advancing Care Information for eligible clinicians
- Also includes a subscription based service for Participants where detail clinical data is provided based on a list of Participan't Patients
- Currently evaluating other clinical registries beyond
   Diabetes

# **Diabetes Disease Registry**

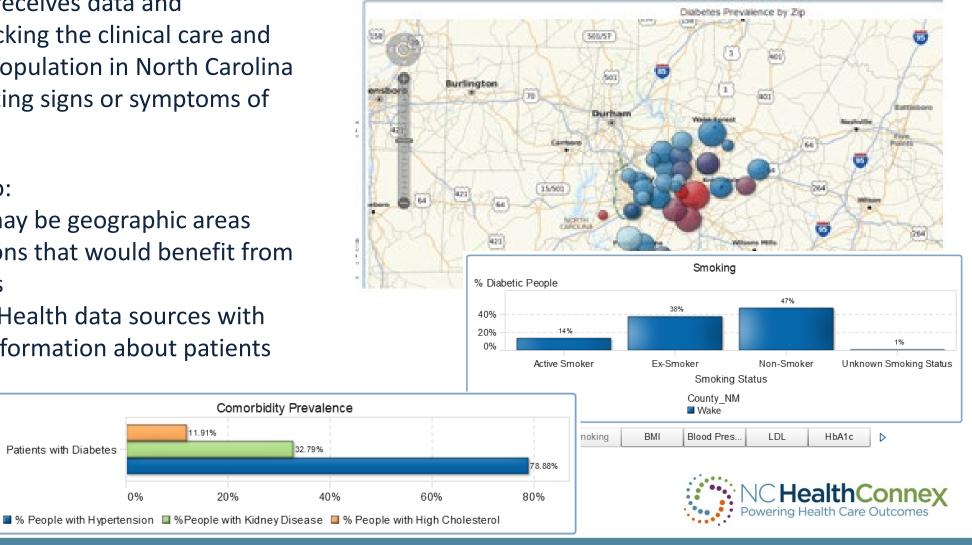
NC DHHS's DPH regularly receives data and visualizations used for tracking the clinical care and outcomes of the patient population in North Carolina diagnosed with or presenting signs or symptoms of Diabetes.

#### This information is used to:

Identify where there may be geographic areas and/or other populations that would benefit from public health programs

✓ Augment other Public Health data sources with de-identified clinical information about patients with Diabetes

Patients with Diabetes



## Lisa's relationship to the Diabetes Registry

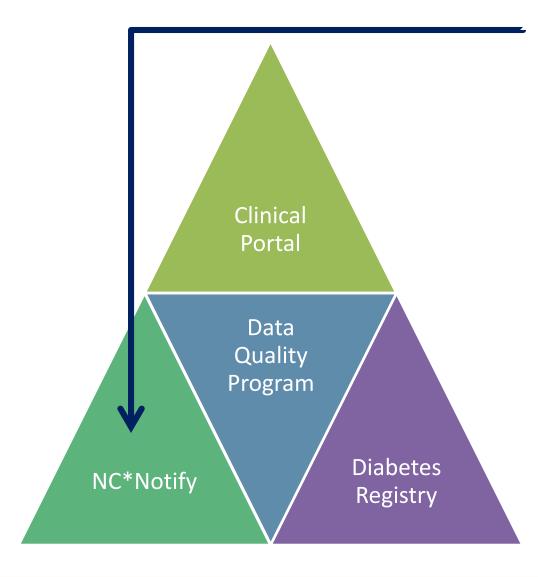


- Lisa is living with Type I Diabetes
- Lisa's encounter data will populate the NC
   DHHS's DPH NC HealthConnex Diabetes

   Registry to help NC DHHS's DPH better
   understand and provide support to North
   Carolinians living with Type I or Type II
   diabetes



### **Current Services Available**



### **NC\*Notify**

- Subscription-based service to notify
   Providers as their patients receive services
   across the care continuum spans
   geography, hospital systems, acute and
   ambulatory care settings, etc.
- Custom lists allow cohorts of Patients tuned to Providers' interest
- Custom delivery methods to integrate into Provider workflows





Event Notifications Powered by NC HealthConnex

### Step 1

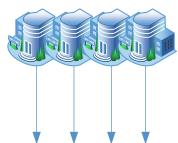
Participant Submits Patient
File for NC HealthConnex to
Monitor

### **Technical Details**

- Flat file with patient demographics
- Sent via sFTP

### Step 2

Other Participants Submit Admission & Discharge Messages (ADT)





### Step 3

Participant Receives Notification File

### **Technical Details**

- Flat file with patient demographics and visit details
- Sent via sFTP
- Participant defines delivery schedule





## NC\*Notify – How to Enroll

- **Trull participation agreement**
- ☐ Complete NC\*Notify enrollment form
- ☐ Send patient list (sent via Secure FTP)
- ☐ Mechanism for receiving alerts (Secure FTP)



### **Benefits - NC\*Notify + Clinical Portal**

- Providers are notified when their patients have received care in other care settings.
- Schedule follow up appointments with patients
- Follow up on medications prescribed or other discharge instructions
- Insight to provide continuity in care to <u>reduce avoidable readmissions</u>
- Insight to <u>achieve financial goals</u> under value-based care contracts
- Utilize for compliance with state and federal quality initiatives, including Meaningful Use/Promoting Interoperability





## Lisa's relationship to NC\*Notify



- Lisa recently had an ER visit while on vacation in another part of the State
- After receiving information via NC
   HealthConnex's NC\*Notify file, Lisa's PCP
   reached out to Lisa's parents to ensure that
   everything was okay with Lisa.
- Additionally, Lisa's PCP imported historical events received from NC HealthConnex's NC\*Notify into her own analytics tool and can therefore see this was an isolated incident.

# Questions:

For more information visit, www.nchealthconnex.gov

Tel: 919-754-6912

E-mail: hiea@nc.gov







### NORTH CAROLINA EHR FUNDING PROGRAM FOR BH/IDD PROVIDERS UPDATES

January 11, 2019

**Lakeisha Moore**, NC Office of Rural Health (ORH)



## BH/IDD EHR Program Reimbursement Process

MOA Signed

- Oct. 2018 BH/IDD signs Memorandum of Agreement with ORH
- BH/IDD assigned Rural HIT Specialist for Technical Assistance (TA)

Select, Contract, Implement EHR

- Oct. 2018 June 2019 Select approved EHR vendor
- BH/IDD encouraged to work with **AHEC Practice Support** to implement EHR

Sign PA

By May 2019 –Sign NC HealthConnex Participation Agreement

Connect

- Nov. 2018 ongoing BH/IDD Connected to NC HealthConnex
- NC HealthConnex notifies ORH re: BH/IDD connection status

BH/IDD \$\$

 Nov. 2018 – ongoing – ORH submits approved-for-payment list to NC Medicaid for reimbursement through NCTracks.



# EHR Funding Program for Behavioral Health/IDD Providers

**HOW** are payments made and what is the process for reimbursement through the EHR Funding Program for Behavioral Health/IDD Providers?

- Practices must apply to the program to be included on the request-forreimbursement list.
- Payments will be made to the organization and are made through NCTracks.
- Reimbursement for technology purchase occurs:
  - once connectivity to the State-designated health information exchange (HIE), NC HealthConnex has been established
  - or active HIE onboarding for over 30 days, whichever comes first.



# EHR Funding Program for Behavioral Health/IDD Providers – Reimbursement

### Items needed for Reimbursement:

- **Proof of EHR procurement costs** EHR receipt/invoice along with EHR contract are examples of proof of EHR procurement costs to be submitted to ORH HIT Specialist.
- Fully executed HIEA Participation Agreement (PA) After participants submit a completed and signed PA to the HIEA, they will receive a fully executed copy of the agreement for their records. Submit a copy of the fully executed agreement to ORH HIT Specialist.
- Proof of EHR being able to connect to NC Health Connex The organization's EHR vendor needs to be listed on the NC HealthConnex EHR Vendor Connectivity Report. If the organization's EHR is not on the connectivity report, the HIEA can work with the EHR vendor to validate that the EHR is able to connect.



### **NC Office of Rural Health Service Area Map**

### **ORH HEALTH IT SPECIALISTS**



EASTERN – SEBASTIAN GIMENEZ SEBASTIAN.GIMENEZ@DHHS.NC.GOV

CENTRAL – ADONNICA ROWLAND

ADONNICA.ROWLAND@DHHS.NC.GOV

WESTERN – ADAM MYERS
ADAM.MYERS@DHHS.NC.GOV







### **SAVE THE DATES:**

BH/IDD EHR Incentive Program Monthly Webinars 2<sup>nd</sup> Friday of each month at noon Dec. 14<sup>th</sup>

Dec. 14<sup>th</sup>
Jan. 11<sup>th</sup>
Feb. 8<sup>th</sup>
March 8<sup>th</sup>
April 12<sup>th</sup>
May 10<sup>th</sup>
June 14<sup>th</sup>

NC HealthConnex How to Connect Call January 28, 2019
Please register to attend the WebEx

NC HealthConnex EHR Vendor Call February 28, 2019 at 11 AM



# Thank You!

For more information visit,

www.nchealthconnex.gov

Tel: 919-754-6847

E-mail: hiea@nc.gov

**NC Office of Rural Health HIT Team** 

E-mail: ORH\_HIT@dhhs.nc.gov

