eHEALTH INITIATIVE

Contact Tracing and Patient Matching (data and analytics for managing COVID-19)

May 28, 2020

Agenda

Welcome and Introductions
- Jennifer Covich Bordenick, Chief Executive Officer, eHealth Initiative and Foundation

Discussion with:
- Gregg Church, President, 4Medica
- Ben Moscovitch Project Director, Health Information Technology The Pew Charitable Trusts
- Harvey Guindi, CIO, Health Network Laboratories
- Vineeth Yeddula, Co-Founder & CEO, KPI Ninja

Housekeeping

- **All participants are muted**
- **To ask a question to be answered by speakers:**
  - Use the "Q&A" box found on the bottom of your screen
  - We will address as many as possible after the presentations
- **For help with technical difficulties and non-speaker questions:**
  - Use the "chat" box and we will respond as soon as possible
- Slides and a recording of today's presentation will be available for download on eHI's Resource page: **www.ehidc.org/resources**
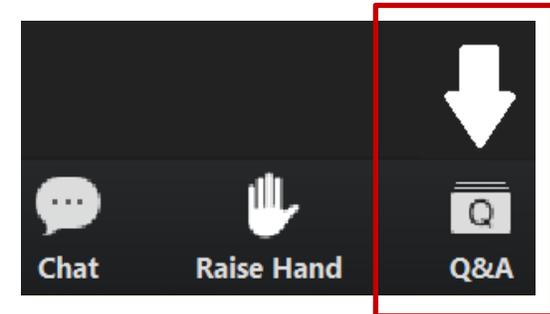
Our Mission

Convene executives who are transforming healthcare through technology and innovation.
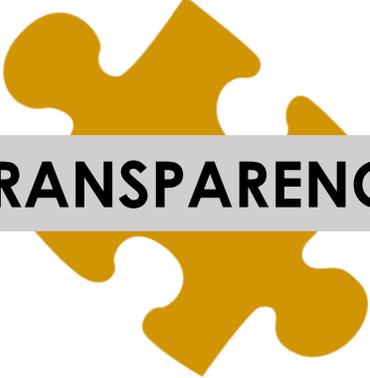
Our Leadership

American College of Cardiology
aws
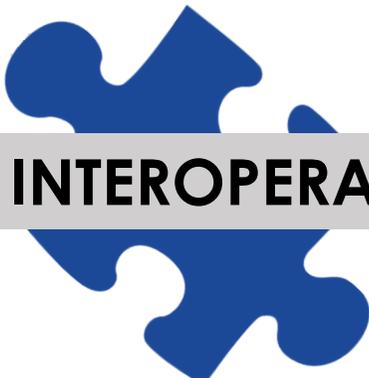AHIMA — American Health Information Management Association
Allscripts

American Cancer Society
American Academy of Family Physicians
ACOG — The American College of Obstetricians and Gynecologists
ACP — American College of Physicians — Leading Internal Medicine, Improving Lives
ACR — American College of Radiology
American Heart Association
American Hospital Association

Availity
BlueCross BlueShield Association
Booz | Allen | Hamilton
CAQH
Cerner
CHANGE HEALTHCARE
DirectTrust

CORHIO — Colorado Regional Health Information Organization
CRISP
EHNAC
Lilly
EPSTEIN BECKER GREEN
fitbit
Google Cloud
GUNDERSEN HEALTH SYSTEM

HealthCatalyst
HealthCore
Healthix
HL7
Hogan Lovells
inovalon
InterSystems — Health | Business | Government

Johnson & Johnson
LexisNexis RISK SOLUTIONS
LifeWIRE COMMUNICATING CARE
manatt
Marshfield Clinic
MAYO CLINIC
MedAllies

National Alliance of Healthcare Purchaser Coalitions — Driving Innovation, Health and Value
nextgen healthcare CONSULTANTS
Northwell Health
OhioHealth BELIEVE IN WE
ORION HEALTH
Point-of-Care PARTNERS — HEALTH IT MANAGEMENT CONSULTANTS

Providence St.Joseph Health
salesforce
Sonora Quest Laboratories — A Subsidiary of Laboratory Sciences of Arizona
STRATEGIC INTERESTS
AT THE FOREFRONT UChicago Medicine
UnitedHealthcare

eHI eHealth Initiative
updox
VALIDIC
verato
welldoc
Wellmark
zipnosis

Areas of Focus

UPCOMING WEBINARS:

- **June 1** – The COVID-19 pandemic is influencing consumer health behavior. Are the changes here to stay?

- **June 4** – Executive Insights with Patrick James, MD, Chief Clinical Officer, Health Plans and Policy, Quest Diagnostics

- **June 11** – After the Curve Flattens: What's Next for Healthcare and COVID-19?

Interested in sponsoring a COVID-19 program? Email Amy@ehidc.org

Thank you! This program was made possible with support from:

WEBINAR: CONTACT TRACING AND PATIENT MATCHING (DATA AND ANALYTICS FOR MANAGING COVID-19)
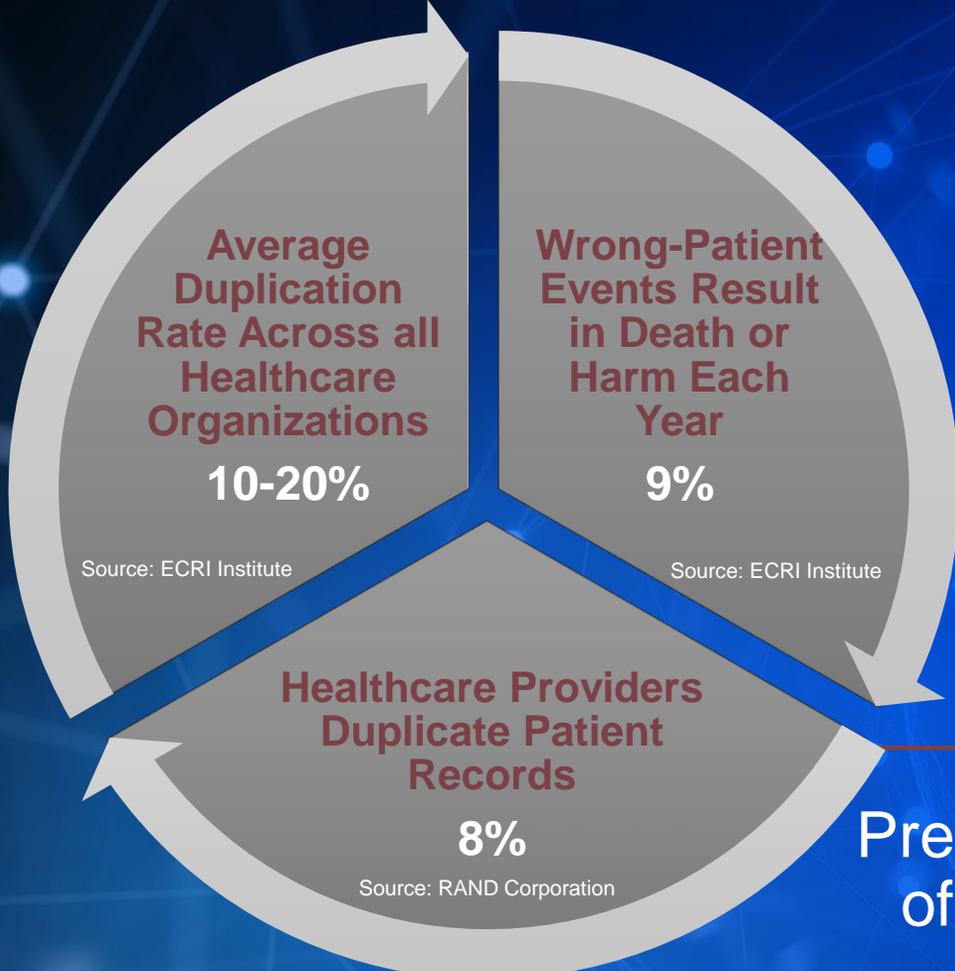
5/27/20

4medica®
One Patient...One Record

1% Duplication Guarantee

We Solve Patient Matching
www.4medica.com

ONE PATIENT... ONE RECORD

4medica®
One Patient...One Record

Average Duplication Rate Across all Healthcare Organizations
10-20%
Source: ECRI Institute

Wrong-Patient Events Result in Death or Harm Each Year
9%
Source: ECRI Institute

Healthcare Providers Duplicate Patient Records
8%
Source: RAND Corporation

Patient Misidentification is Costly and Deadly.

Preventable medical errors are the third leading cause of death in the United States, causing an estimated 440,000 deaths per year. (Source: John Hopkins)

4medica Big Data MPI™ & 4medica MPI – as-a-Service™

WHO IS DIRECTLY RESPONSIBLE & WHY?

✓ **All Healthcare Organizations**

- Lack of "best practice" registration standards (at the point-of-care)
- No accountability for ongoing data quality standards
- Conventional MPIs not designed for real-time transaction processing (interoperability)
- Lack of adequately trained data stewards
- Lack of data management protocols and processes

LEARN MORE:

- ✓ www.4medica.com/
- ✓ info@4medica.com
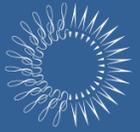
Contact Tracing Data Needs

- Use more data
  - Addresses: 90% in WI; 55% in IN
  - Phone number: IN 47%; WI 35%

- Standardize data
  - USPS standard 3% increase

Data Element	Standardization
Last Name	CAQH normalization
Telephone number	ITU Recommendation E.123
SSN	Invalid numbers and hyphens removed

ONC can help

(7) improves public health activities and facilitates the early identification and rapid response to public health threats and emergencies, including bioterror events and <mark>infectious disease outbreaks</mark>

THE PEW CHARITABLE TRUSTS

USCDI v1 Summary of Data Classes and Data Elements

Allergies and Intolerances
- Substance (Medication)
- Substance (Drug Class)
- Reaction

Assessment and Plan of Treatment
- Assessment and Plan of Treatment

Care Team Members
- Care Team Members

Clinical Notes
- Consultation Note
- Discharge Summary Note
- History & Physical
- Imaging Narrative
- Laboratory Report Narrative
- Pathology Report Narrative
- Procedure Note
- Progress Note

Goals
- Patient Goals

Health Concerns
- Health Concerns

Immunizations
- Immunizations

Laboratory
- Tests
- Values/Results

Medications
- Medications

Patient Demographics
- First Name
- Last Name
- Previous Name
- Middle Name (incl Middle Initial)
- Suffix
- Birth Sex
- Date of Birth
- Race
- Ethnicity
- Preferred Language
- Current Address
- Previous Address
- Phone Number
- Phone Number Type
- Email Address

Problems
- Problems

Procedures
- Procedures

Provenance
- Author Time Stamp
- Author Organization

Smoking Status
- Smoking Status

Unique Device Identifier(s) for a Patient's Implantable Device(s)
- Unique Device Identifier(s) for a Patient's Implantable Device(s)

Vital Signs
- Diastolic Blood Pressure
- Systolic Blood Pressure
- Body Height
- Body Weight
- Heart Rate
- Respiratory Rate
- Body Temperature
- Pulse Oximetry
- Inhaled Oxygen Concentration
- BMI Percentile (2 - 20 Years)
- Weight-for-length Percentile (Birth - 36 Months)
- Head Occipital-frontal Circumference Percentile (Birth - 36 Months)

Thank you! Questions?

For additional questions or information, please contact:

Ben Moscovitch

Project Director

Health Information Technology

The Pew Charitable Trusts

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@benmoscovitch

HNL Lab Medicine

Webinar: Contact Tracing and Patient Matching (data and analytics for managing COVID-19)

28May2020

HNL.com

At a Glance

FACTS

1,100	35+	8	750K+
Employees	Pathologists & Scientists	Years the Average Employee is with HNL Lab Medicine	Customer Care Calls

40%	14
Employees with Advanced Credentials	Accrediting & Licensing Agencies

FACILITIES

12	60+	30+	2.3M	76
Labs	Patient Centers	Hospitals Supported	Courier Miles	Skilled Facilities Serviced

NOVEL SERVICES

30K	1K	25K	850K	>300
Blood Products Administered	Forensic Pathology Associates	House Calls	Point of Care Tests	Genetic Testing (CTGT)

SERVICES

2M+	6K+	7M+	60M+	99%
Patient Encounters	Tests Offered	Billables	Reported Results	Test Results in 24-hrs

SERVICE LINES

17	100+	12K+	15K	7
Test Departments	Unique EMR Interfaces	Healthcare Providers	Regional Sq. Mile Coverage	States w/ HNL Lab Medicine Clients

HNL Lab Medicine®

HNL Client Locations - National

HNL.com
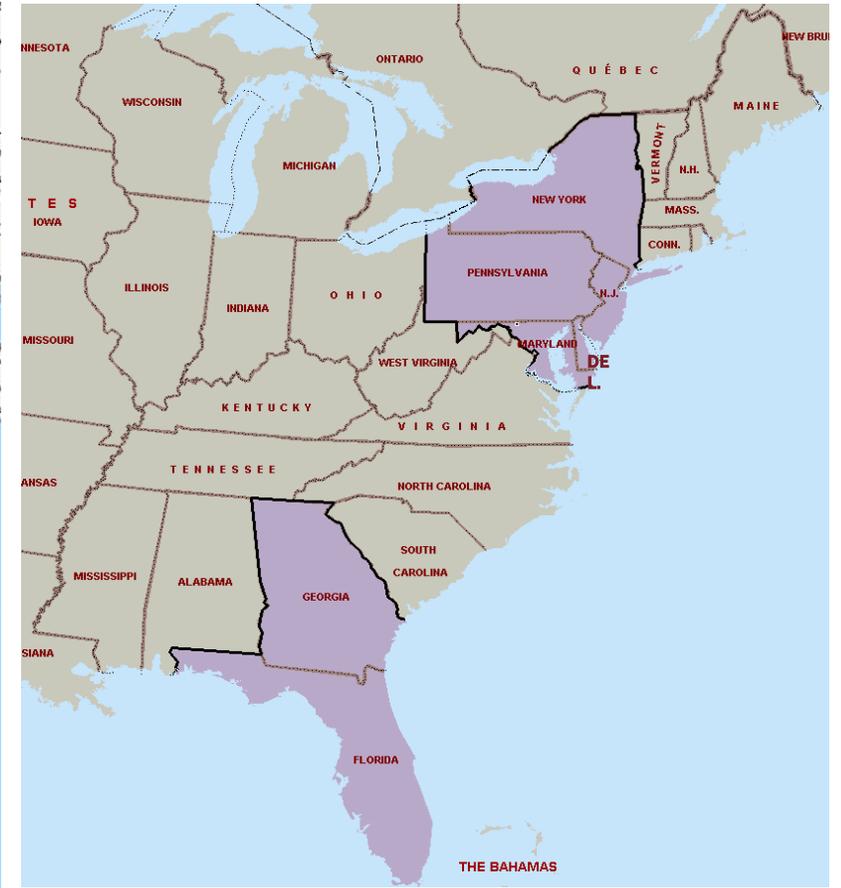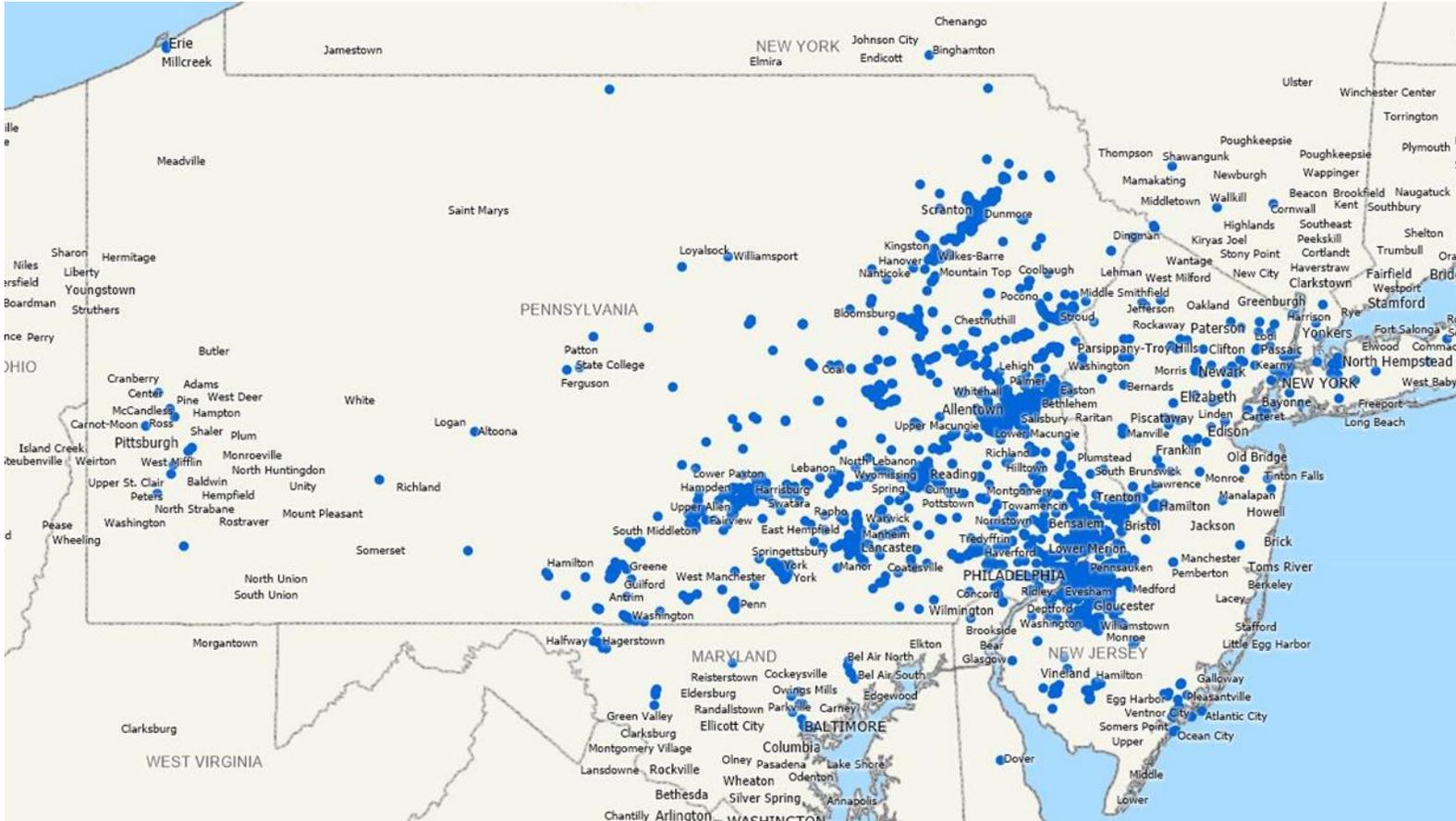
Presentation for eHealth Initiative

Webinar: Contact Tracing and Patient Matching

KPININJA

COVID19: Technology and Data Management

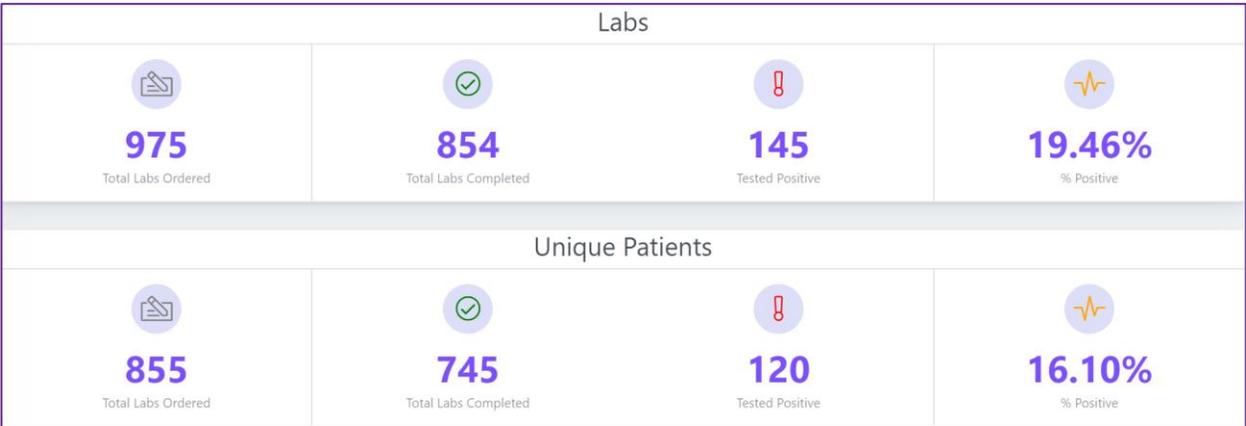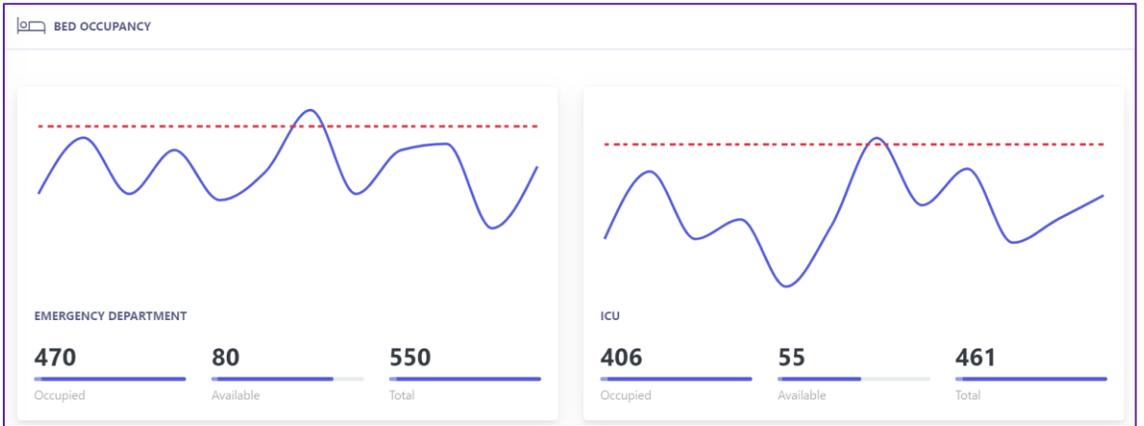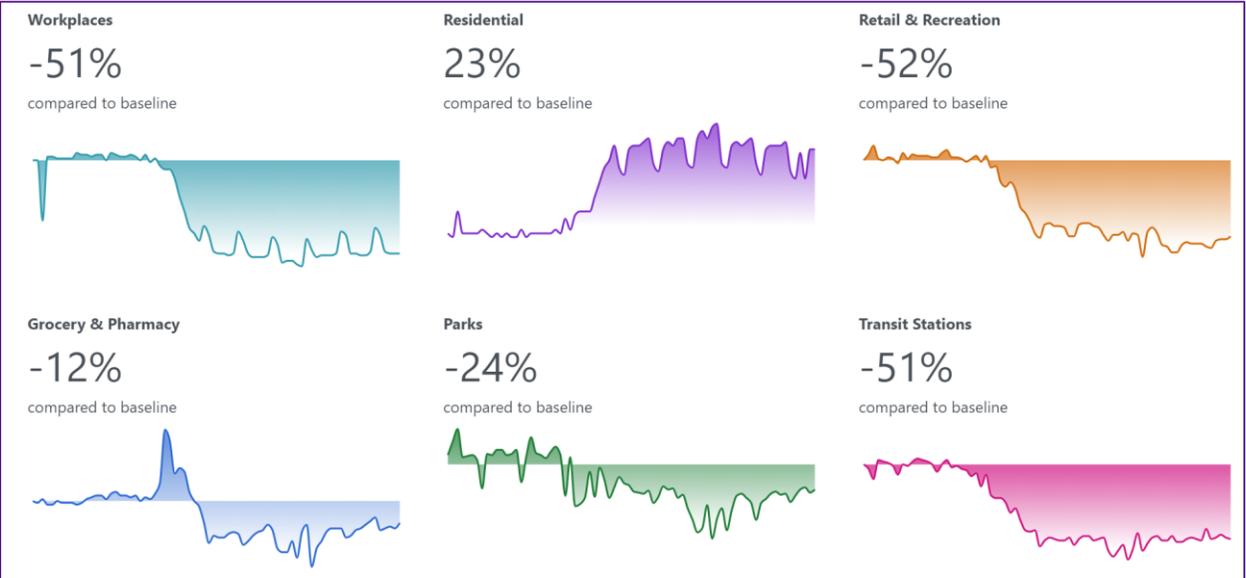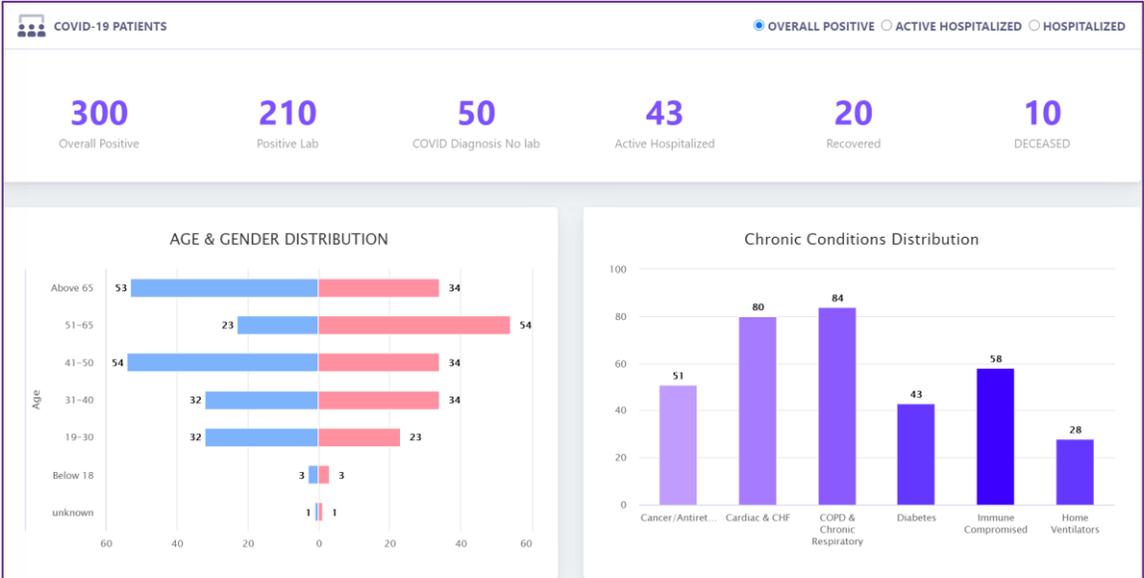| Realtime COVID19 Insights	Digital Contact Tracing	Immunization and Vaccination

- Bed Management
- COVID Labs
- Alerts and Notifications
- Capacity Forecasting
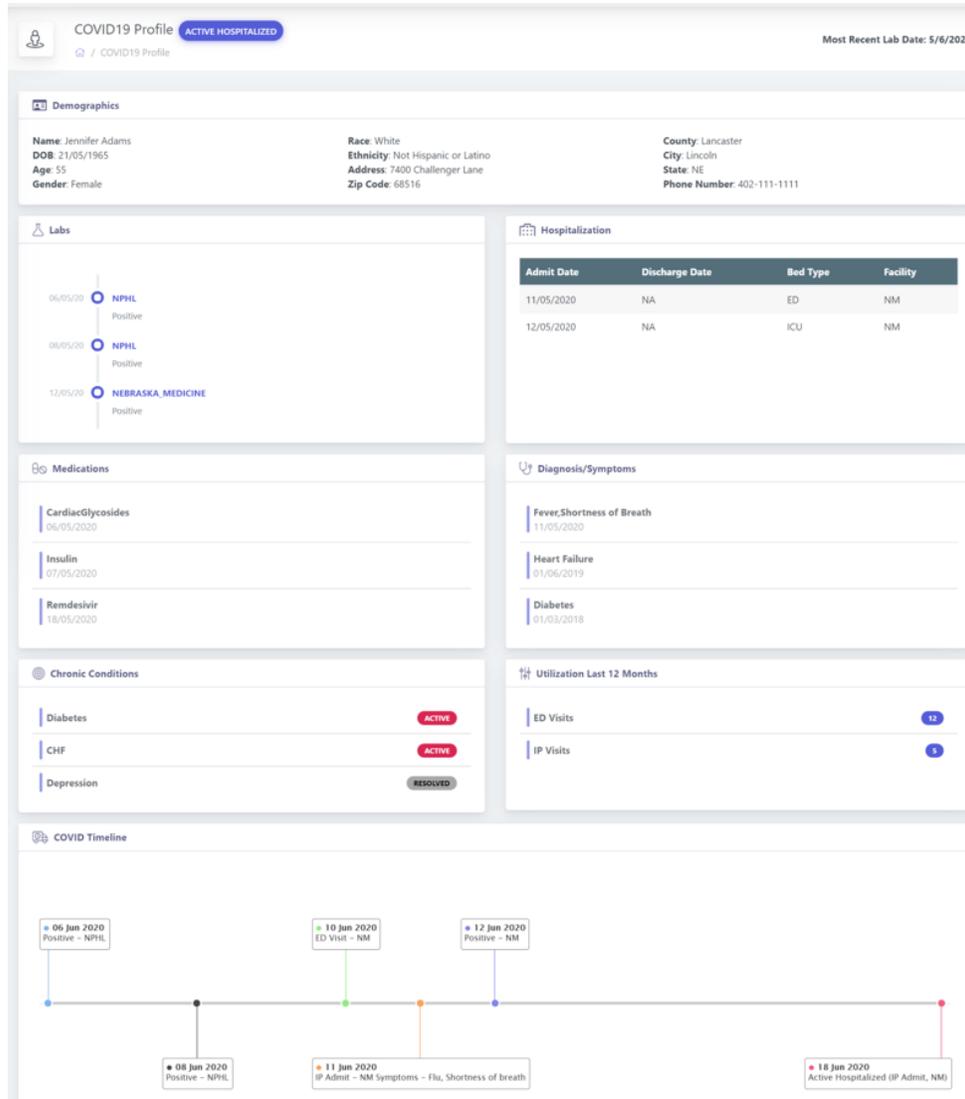- High Risk Population
- PPE Tracking
- Social Distancing

- COVID19 Rosters
- Case Management
- Proximity Tracking
- Social Mapping
- Self-Assessment Tool

COVID19: Realtime COVID19 Insights

COVID19: Digital Contact Tracing

- **Reduce the burden of data collection by the public health staff**
  - Receive important information around COVID-19 patients through automated means
  - COVID19 self-assessment tool
- **Case Management**
  - Capture data on cases and contacts digitally
  - Automated notification and follow-up with the patients
- **Proximity Tracking**
  - Proximity sensing technology to track individual's exposure to cases while protecting personal privacy

Contact Information

Vineeth Yeddula

Co-Founder and CEO, KPI Ninja

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Thank You

Discussion

Thank you! This program was made possible with support from: