Exploring Text and Web – Based Tools to Address Public Health Resource Challenges

Smeralda Bushi
PEG Project Coordinator
Communicable Diseases Division
Michigan Department of Health and Human Services

Michigan coronavirus (COVID-19) cases rise to 110; first death reported

First COVID-19 death reported in Wayne County

Michigan con coronavirus, Detroit

Michigan issues stay-at-home order amid coronavirus: Here's what it means

More than 1,200 COVID-19 cases confirmed

NEWS

Ken Haddad, Digital Content Manager

Published: February 28, 2020 at 9:43 AM

Tags: Coronavirus, Gretchen Whitmer, Michigan, Health, Virus, News, Emergency Michigan activates state emergency operations center to prepare for coronavirus

State prepares for potential cases

'Operation Gridlock' -- Michigan stay-at-home order protested in Lansing

esponse Efforts From a

'We're flying blind': African Americans may be bearing the brunt of Covid-19, but access to data is limited

e of everything':

nerica's pandemic

mber 17. 2020

Reprints

By Elizabeth Cooney J April 6, 2020

with no symptoms

WHO head warns worst of virus is still ahead

April 20, 2020

nearly as important as sto

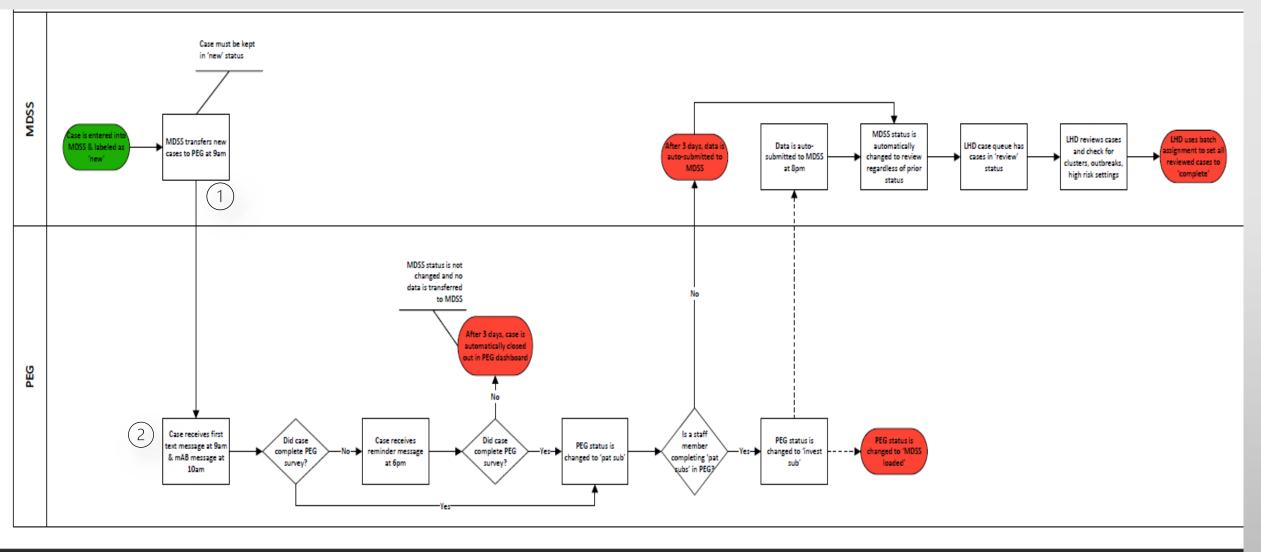


Public/Private Partnerships

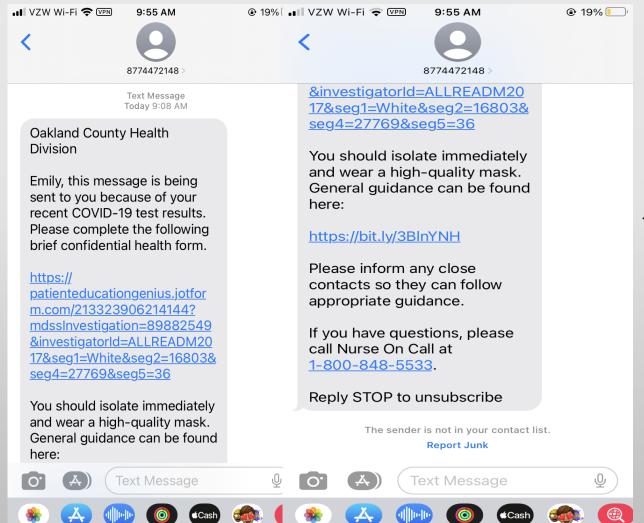
- People.Health (PEG)
 - JotForm
 - Twilio
- Altarum
- Local Health Departments (LHDs)
- State of Michigan Communicable Disease and HIV & STI Divisions



Automated public health notification & investigation system life cycle



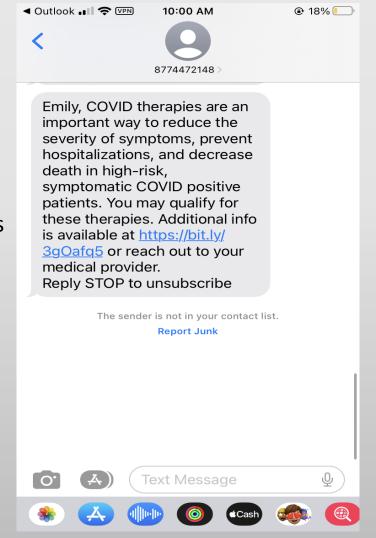
What does the case-patient see?



Initial

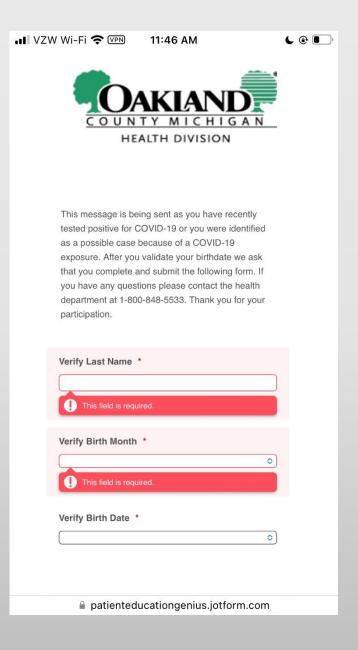
Message

Therapeutics Message

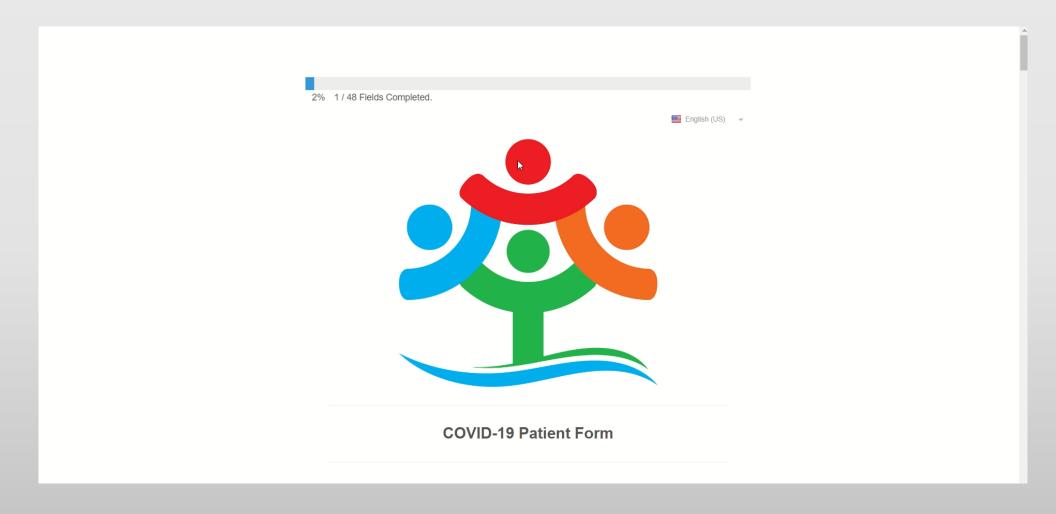


Authentication Screen

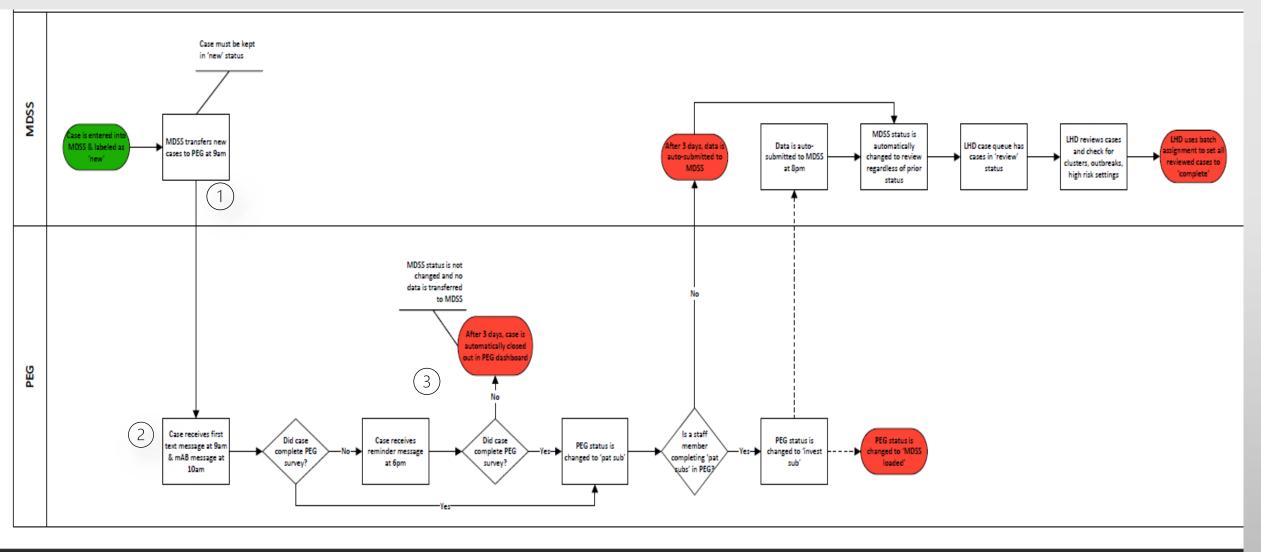
- Each time you open a form
- Must spell last name exactly like in MDSS



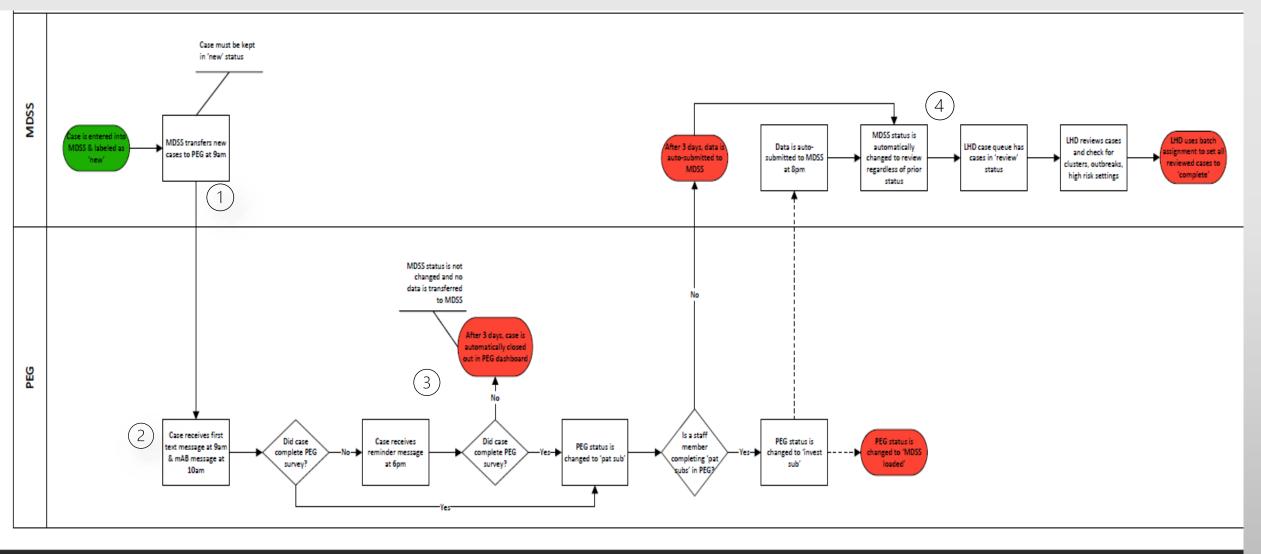
The Form

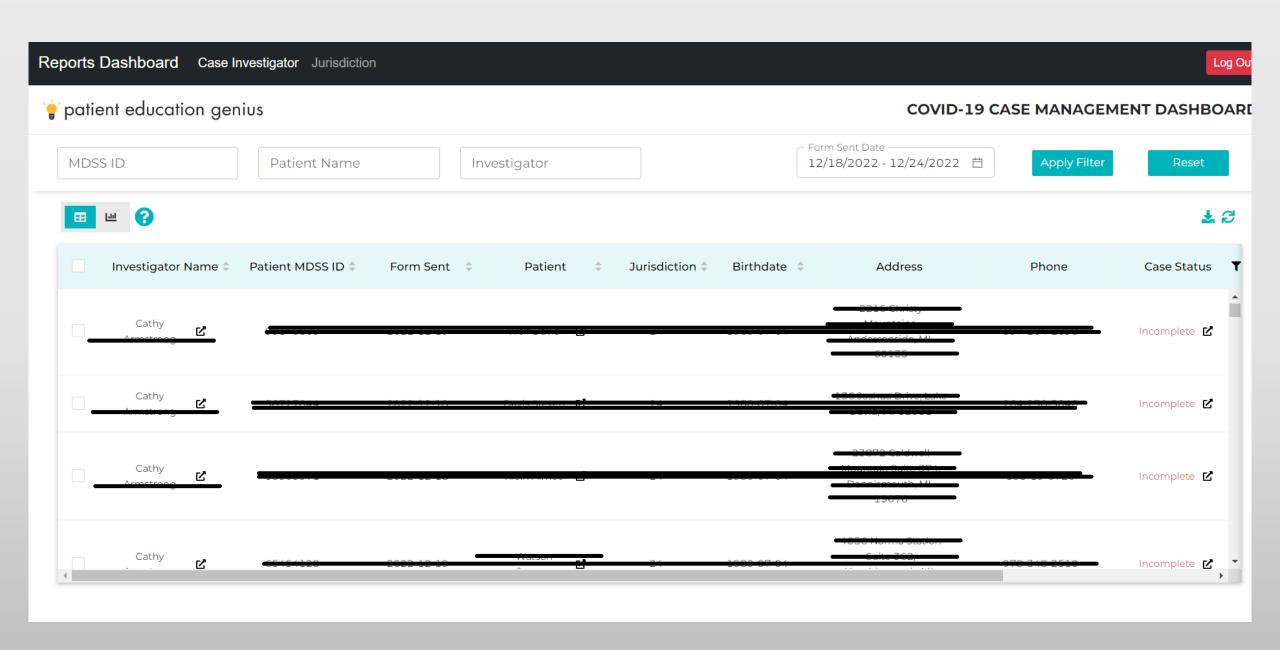


Automated public health notification & investigation system life cycle



Automated public health notification & investigation system life cycle

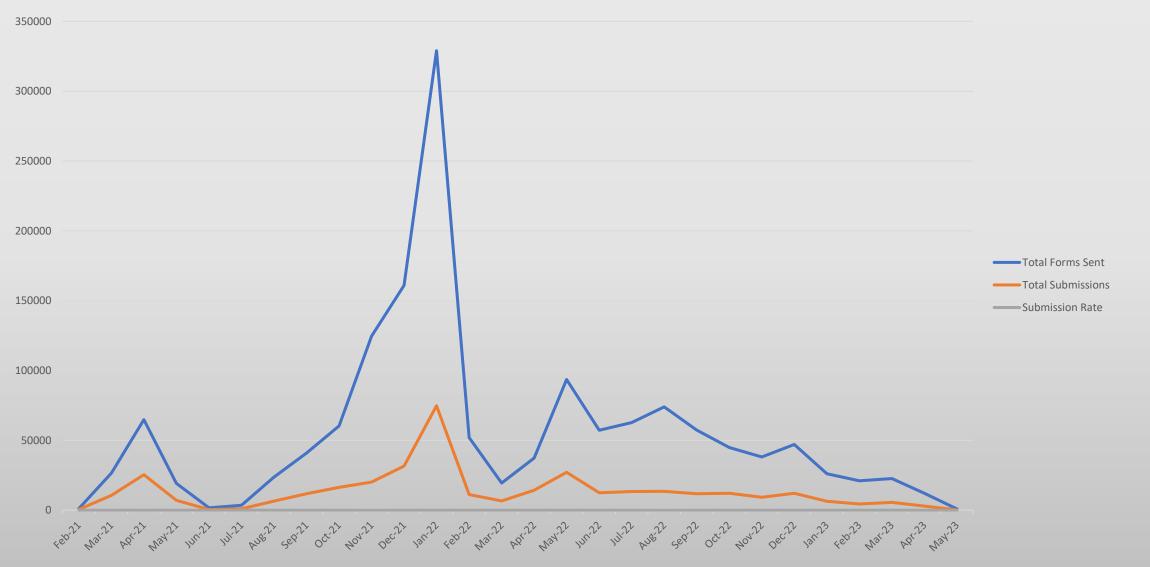




Results

- 2,300,106 individual referrals were sent
- 537,209 online investigation surveys were completed
- 1,574,024 messages were transmitted with educational offerings
 - 70,559 links were selected
- 1,392,782 messages providing information on available treatments were delivered within 24 hours of public health notice

Forms Sent vs. Submitted

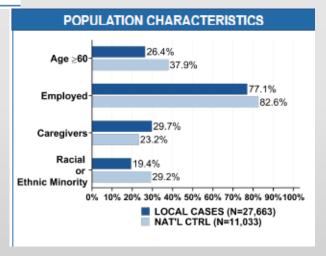


CDC Study Participation

- 31,851 opened the link
 - 29,982 eligible
- Population in Michigan
 - Younger
 - More likely to be vaccinated
 - More likely to be unemployed

TYPE OF TEST (LOCAL)		
Rapid Test PCR Test	26% 31%	
Both	43%	

TRUSTED SOURCES OF INFORMATION (LOCAL) CDC 67% Healthcare provider 66% State or county health departments 57%



Text-to Option for self reported case-patients

- For positive at-home cases
- Cases text their LHD code to 1-855-706-1919
 - Ex. "OAKLAND" or "DHD4"
- Receive current guidance and links to resources

Week 1	154
Week 2	234
Week 3	292
Week 4	321
Week 5	335
Week 6	395
Week 8	418
Week 10	448
Week 12	490
Week 15	522
Week 17	539
Week 20	569
Week 21	571
Week 23	586
Week 24	589
Week 26	601
Week 29	612

Was it a success?

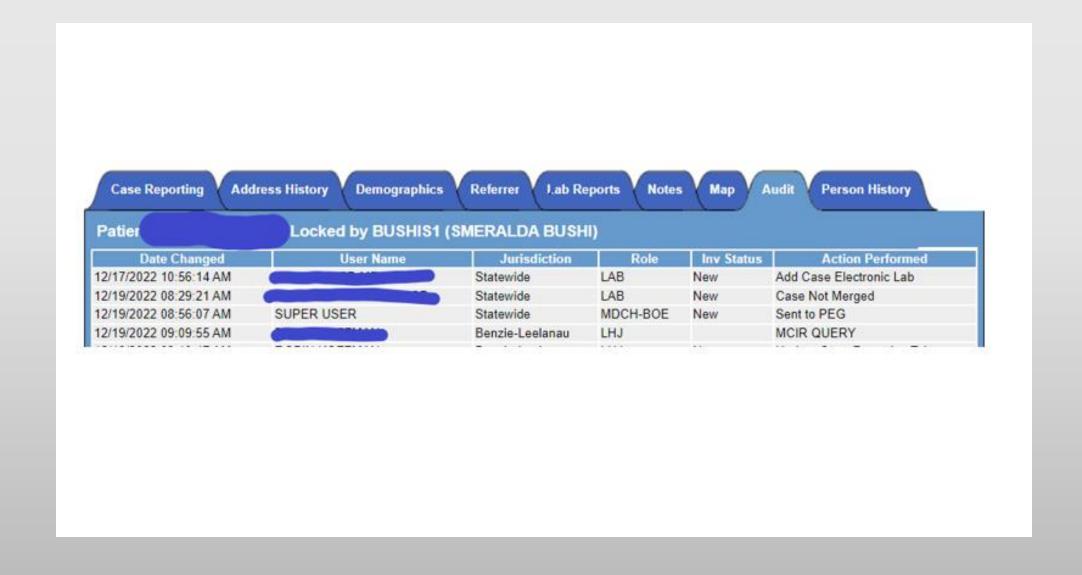
- Collected information
- Provided timely treatment and prevention guidance
- Successfully facilitated future contact between case-patients and Michigan LHDs

Acknowledgement

- Co-Authors
- People.Health
- LHD's
- Altarum
- COVID Case Investigators

THANK YOU

What makes it a PEG case?



Case receives first text message at 9am & mAB message at 10am

