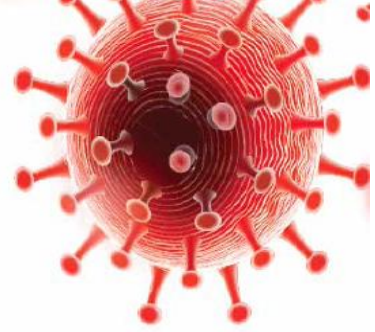




# Symptom Collector Covid-19



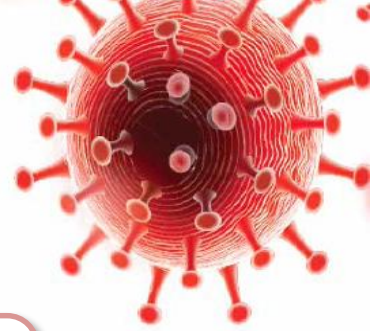


## Real-Time symptom data collection

Critical in planning  
and fighting Covid-19

- Allows users from anywhere to report their symptoms from the safety of their homes via their phone, tablet or computer
- With permission, user location is captured when symptom data is submitted, creating heatmaps accessible by authorized government & health officials
- Cities, counties, states, countries and health authorities are authorized to receive a secured feed and map view of the data
- Healthcare and testing resources can be prioritized based on risk scores and symptom hotspots
- Hospital & testing loads can be anticipated based on areas where symptoms are increasing

# Real-Time Symptom Collector



Visit the tool at: <https://symptomcollector.com>

## Top of page: Tool Explainer

### Symptom Collector Covid-19 Virus

Thank you for visiting the Symptom Collector. We need your help to give first responders, hospitals, cities, counties, states and health officials an early warning about symptoms you may be experiencing.

With this information, officials can ensure that testing and services are available where the need is greatest. Anyone, anywhere can report their symptoms using a mobile device or computer, all while staying safely at home.

We'll start by asking for your permission to use the information you give us. Next the system will request your permission to automatically capture your location. Finally we will ask a series of questions about your current symptoms, and give you the option to record yourself coughing if you have a cough.

We sincerely thank you for your willingness to help us defeat this dangerous virus.

**Please Help.** Tell us what symptoms you're experiencing so we can prioritize our resources where the need is greatest.

By monitoring symptoms we can better understand where to focus our efforts and create an appropriate response.

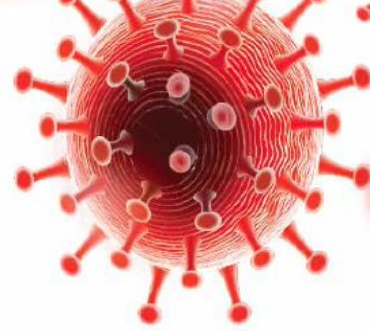
\* Email or Mobile number is collected only to allow the user to return and update their symptoms. These data elements are not shared with anyone.

## Consent & Contact Information\* Section

1	<p>Please give us your permission to collect and store this data</p> <p><input type="checkbox"/> I agree to allow my information to be used for this project.</p>
2	<p>Please allow us to capture your location so that we can identify hotspots</p> <p><input type="checkbox"/> Yes, include my location.</p> <p>Please include your zip code or postal code. <input type="text"/></p>
3	<p>You can optionally include either an email address or mobile phone number that can receive a text. By submitting your contact information, you can come back and update your symptoms another time. Your contact information will not be shared with anyone. We will never sell, rent, or exchange your contact information.</p> <p>Mobile Phone or Email Address <input type="text"/></p>



# Real-Time Symptom Collector



## Demographic & Symptoms Details

4

Please answer these questions about your symptoms

Have you been tested for Covid-19 (aka the Coronavirus)?

How long have you had symptoms?  days

If you experienced a fever, what is the highest reading you observed?

Do you feel you are fully recovered?

Do you still have a cough?

How old are you?

What is your gender?

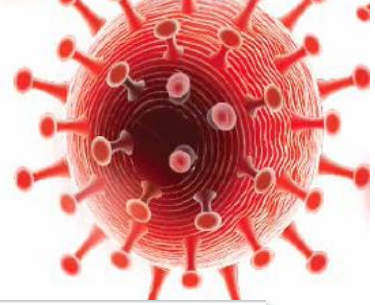
What are your primary symptoms?

- ☐ Cough
- ☐ Diarrhea
- ☐ Headache
- ☐ Loss of taste or smell
- ☐ Nausea
- ☐ Trouble Breathing
- ☐ Vomiting
- ☐ Other

Do you have any of the following underlying conditions?

- ☐ Asthma
- ☐ Chronic Bronchitis
- ☐ COPD
- ☐ Cystic Fibrosis
- ☐ Diabetes
- ☐ Emphysema
- ☐ Lung Cancer
- ☐ Pleural Effusion
- ☐ Pneumonia
- ☐ Other

# Cough Sounds and Submission



## WHY COUGH SOUNDS DATA?

- New tools are being trained by various AI specialists that can distinguish between “Covid Cough” sounds and the sounds of other coughs, like asthma, COPD, bronchitis, lung cancer
- Cough sounds data being collected will be used in the future to help advise individuals to:
  - Stay at home because their cough is not a Covid Cough
  - Seek testing because their cough has Covid Cough characteristics

5

### Please record yourself coughing

If you are currently experiencing a cough, please click the START button to give us an audio sample of your cough.

The recorder will turn off after 60 seconds or when you click STOP. If possible please cough for the full 60 seconds indicated in the timer.

Start recording



60 Second Timer

Stop recording



6

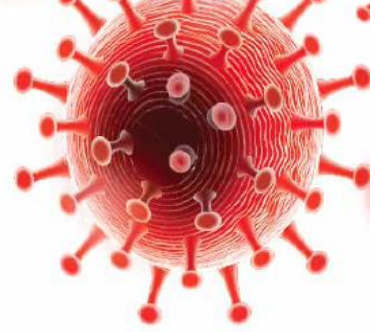
### Thank you for participating in this critical research.

Submit

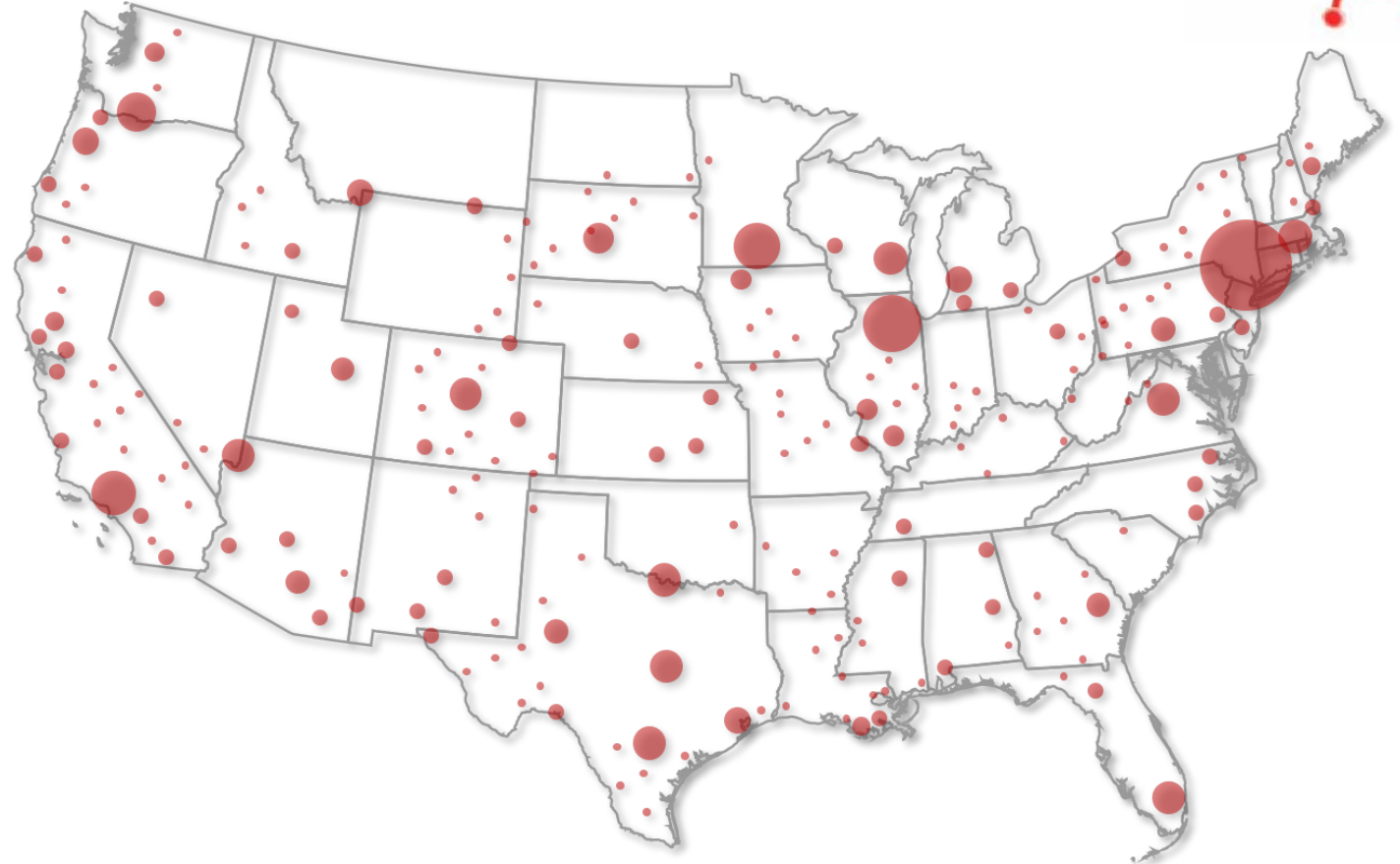


Please [click here](#) to read about how your information is being used and our privacy policy.

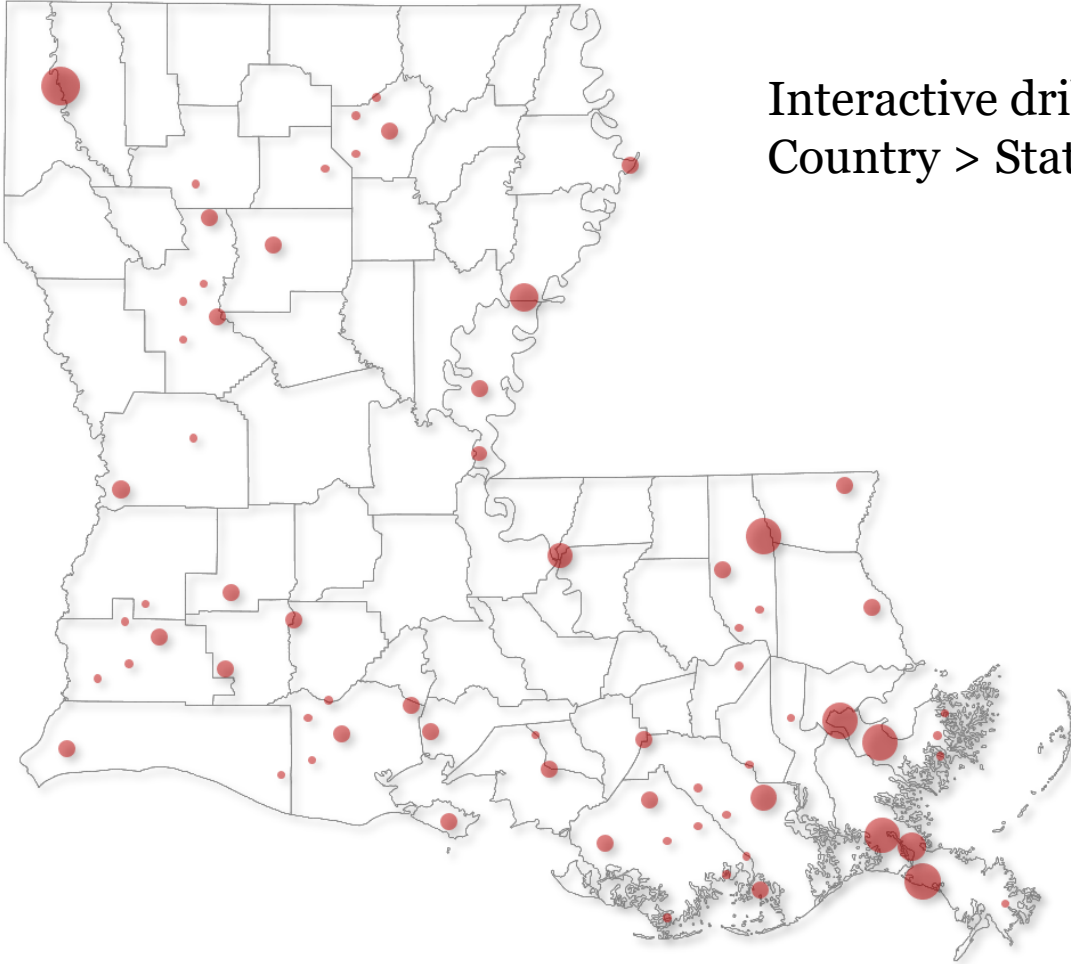
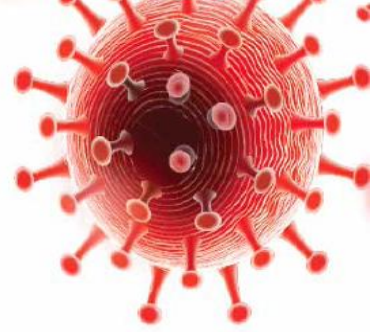
# Interactive Map Access for Authorized Users



- For all submissions that permit Location tracking, each will be plotted using granular Lat/Long coordinates along with a timestamp and full symptom specifics
- These can be resolved to Census Blocks as well if desired
- System users can view the data on the map and the dashboard
- System users can also receive an API feed or other data delivery service for their jurisdiction to receive the raw, real-time data for their own use



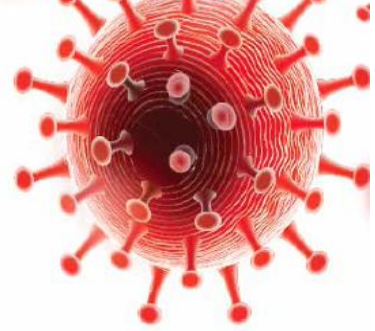
# Drill Down Options



Interactive drill down options to get from  
Country > State > County > City > Local Area



# Customized by Jurisdiction



Branded, custom pages  
for each jurisdiction



## Symptom Collector Covid-19 Virus

Thank you for visiting our research page. We are asking for your help in potentially life-saving research related to the Covid-19 virus.

The purpose of this website is to collect symptoms being experienced by the public, so that we can prioritize locations where our medical resources should be deployed, and allow citizens to register their symptoms from the safety of their homes.

Below we will ask a series of questions about your current symptoms. The system will also automatically observe your location, if your device is capable of communicating it, if you give us permission to do so. We will ask for your permission when you begin entering information in the fields below.

We sincerely thank you for your willingness to help us defeat this dangerous virus.

**Please Help.** Tell us what symptoms you're experiencing so we can prioritize our resources where the need is greatest.

By monitoring  
symptoms we can  
better understand  
where to focus  
our efforts and  
create an  
appropriate  
response.

<https://symptomcollector.com/jacksonms>

- Custom pages created for each city, county, state or other jurisdiction
- Additional links, resources and content can be added to each page as per requirements
- Ongoing coordination with officials to provide expert analysis from our team of data scientists where needed

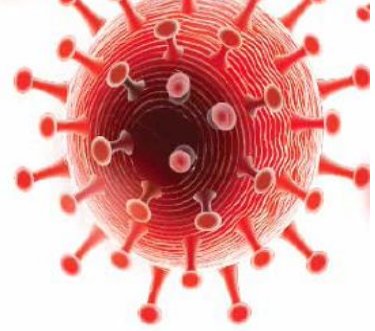


Thank you for helping us beat this dangerous virus. Below are some resources to assist you with the next steps toward better health.

1	Please contact your <b>personal health care physician</b> for screening and/or testing
2	If not possible, contact the <b>University of Mississippi</b> for screening and/or testing <div>Contact UMMC →</div>
3	Or contact the <b>Jackson Hinds Comprehensive Health Center</b> for screening and/or testing and use the contact us link for telehealth. <div>Contact Jackson Hinds →</div>
4	Call the <b>City of Jackson Coronavirus Hotline</b> 601-586-3067 (Local) 866-375-2819 (Toll-free)
5	To find out <b>more information about the Coronavirus</b> , click link below for the Center for Disease Control website <div>If You Feel Sick, Click Here →</div>

Screening and testing is a critical component of fighting Covid-19 and your personal health. Please be proactive addressing your own or family's health status.

# Custom Resource Pages



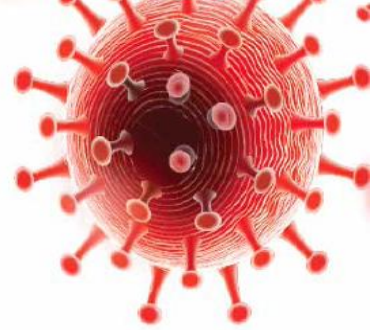
Example:

<https://symptomcollector.com/jacksonms/resources.htm>

- Each time a user completes a submission, they can be redirected to a customized Resource page
- Resource pages can include any local information, links, media and health directives
- Resource pages can be updated on the fly as conditions on the ground evolve

# Customized Promotional Tools

Pre-sized units for digital, social and email to urge citizens to report symptoms



**If you're feeling sick  
please stay home.**

Use a phone, tablet, or  
computer and report your  
symptoms **online**.

**Fight Covid-19  
Save lives.  
Stay safe.**



<https://SymptomCollector.com/JacksonMS/>



**THE CITY OF  
JACKSON  
MISSISSIPPI**

Symptom Collector  
Covid-19 Virus

Report symptoms  
**online** with a phone,  
tablet, or computer.

**Stay home. Stay safe.**

<https://SymptomCollector.com/JacksonMS/>



**We can beat this  
virus. Stay home  
and stay safe.**

Report symptoms online  
with a phone, mobile  
device, or computer.

<https://SymptomCollector.com/JacksonMS/>



**Fight Covid-19.  
Save lives.  
Stay safe.**

**Stay home.**

Report symptoms safely  
online with your phone,  
tablet, or computer.



<https://symptomcollector.com/eriecohealthohio/>



**If you aren't  
feeling well  
please stay  
home.**

**Help save  
lives.**

Report your symptoms online.  
Use your phone, tablet, or computer.



<https://symptomcollector.com/eriecohealthohio/>




**Fight Covid-19 from home with our  
online symptom collector**

**We can save  
lives together.**

Use a mobile device or computer



<https://symptomcollector.com/eriecohealthohio/>




**Fight Covid-19.  
Save lives.  
Stay safe.**

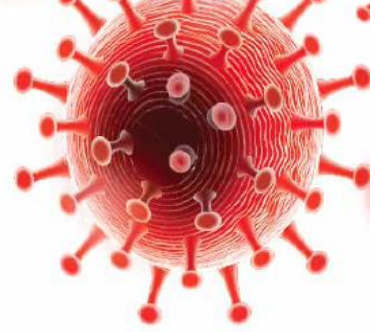
**Stay home.**

Report your symptoms online with a  
smartphone, tablet, or computer.

<https://SymptomCollector.com/JacksonMS/>



# Symptom Severity Scoring



- System scores combinations of symptoms, demographics and underlying conditions
- Jurisdictions can customize the scoring model to suit their own models
- Example combinations below

## **HIGH SEVERITY**

- Over Age 60
- Underlying Condition(s)
- Cough
- Shortness of Breath
- Fever
- Loss of Taste/Smell

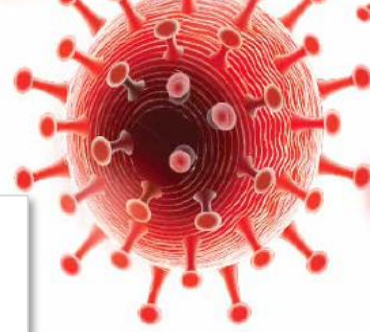
## **MODERATE SEVERITY**

- Under Age 60
- Cough
- Shortness of Breath
- Fever
- Loss of Taste/Smell

## **LOW SEVERITY**

- Under Age 60
- Cough
- Fever

# Alerts

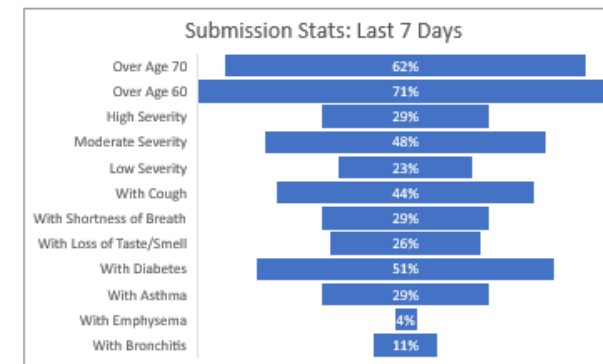
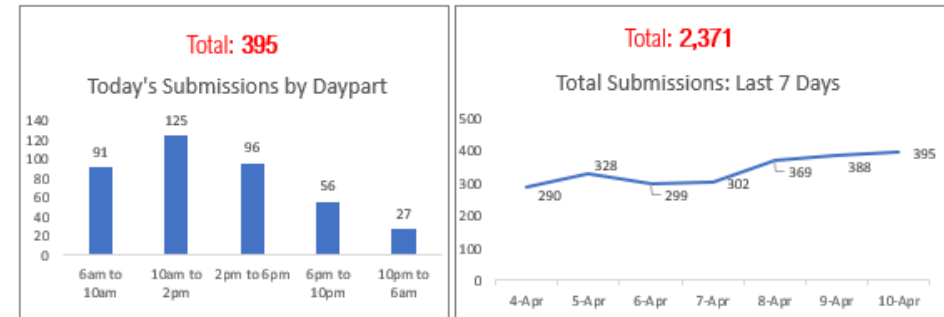


- The system can generate a series of customizable alerts delivered via email or SMS
- Each type of alert can be set up to carry different details to different groups of internal users
- Alerts can refer to:
  - Daily Submission Summaries
  - High Level Statistical Analysis of current and YTD submission data
  - Submission notifications for heavy concentrations in a given geography, or, high volumes of submissions deemed to be high on the Severity Score

## Symptom Collector Covid-19 Virus

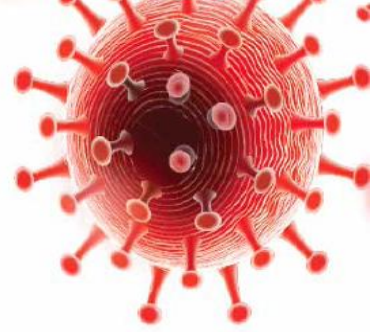
### Daily Submission Summary

As of: April 5, 2020 6:00pm EDT



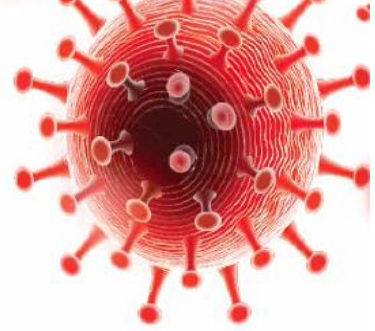


# Symptom Collector In the News



- Jackson, Mississippi:  
<https://www.news5cleveland.com/news/coronavirus/new-technology-helps-erie-county-track-covid-19>
- Erie County, Ohio:  
<https://www.news5cleveland.com/news/coronavirus/new-technology-helps-erie-county-track-covid-19>

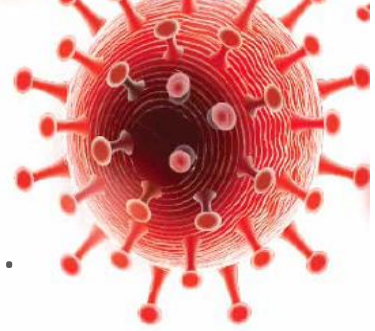
# Data Sharing Policy for Users



## How We Use Your Information

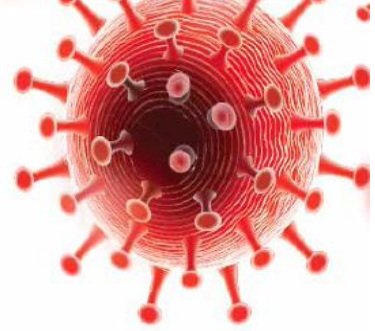
Your data is used only to assist local, state and federal government officials and public health professionals to see where new cases of Covid-19 may be starting, so that they can prioritize their testing and medical resources to those places. Your data will never be sold, rented or exchanged with third parties. We do share your symptoms and *general* location with governments and health officials, but we do not share any contact information that you might provide, or your precise location, with anyone. We collect your phone or email address only so that you can return and update your symptoms if you wish, but those pieces of information are encrypted and not shared with or made available to anyone. Please contact us with any questions or concerns.

# Costs



- Map access is available to all public sector and government entities
- Fees consist of a one time charge for set-up, customization and ongoing management. No further annual or monthly fees.
- International fees vary based on requirements
- Set Up costs typically range from \$4k to \$10k per city, and include:
  - Map customization for each market to ensure appropriate geographic display of symptom reports
  - Creation and hosting of a customized version of the tool, unique to each jurisdiction, with customized fields and functions
  - Translation into local language(s)
  - Integrations with relevant websites or other digital tools
  - Data Provisioning to define the geography of data to be extracted and delivered to authorized personnel
  - Our tech services to build any APIs or other data services required to ensure secure, continuous data delivery to authorized users
  - Customized Promotional Tools to help promote usage of the system to the public including Digital, Social, Email
  - Customized Resource Pages that appear for each local market when a user submits their information, guiding them to local services and resources
  - Daily and Hourly Alerts and Standard Risk Scoring

# Chrysalis Team



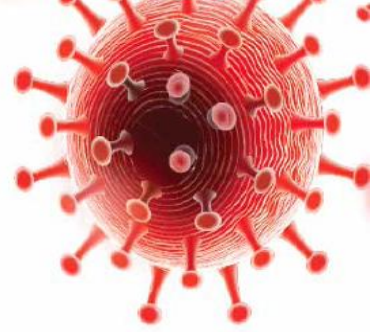
Kitty Kolding  
CEO

The co-founder and CEO of Chrysalis, Kitty Kolding is an experienced entrepreneur who founded and operated three of her own companies and was hired as CEO to lead four others, in the fields of marketing tech, data services and data systems.

Chrysalis Partners was founded in 2017 and focuses on delivering value, utility and revenue from data for corporate clients and public sector partners including municipalities, public agencies, and state and local government.



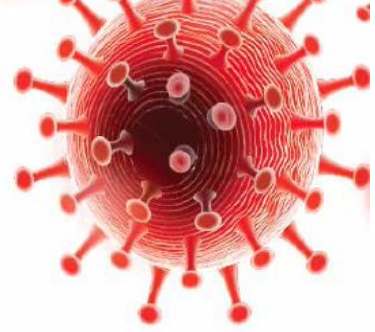
# Chrysalis Team



Mark Fogarty,  
Chief Technology  
Officer

Co-Founder and Chief Technology Officer, Mark Fogarty has an extensive background in creating high performing, web-based tools and interactive systems as well as sophisticated database development and management across marketing tech, marketing services, data providers and analytics companies.

Previously Mark founded and served as CTO at Fogarty Consulting, a high-end custom software and technology company that served clients like the U.S. Navy and numerous mid-sized companies, building mission-critical systems and complex, web-based applications.



# Contact Us to Learn More

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Chief Executive Officer

Chrysalis Partners

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**Kraig Monteferrante**

Chief Revenue Officer

Chrysalis Partners

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