Surveillance Analytics
POWERED BY THE ALINIQ INTEGRATED PLATFORM

PROVIDE CRITICAL INSIGHTS TO ADDRESS THE IMPACT
OF INFECTIOUS DISEASES ON PUBLIC HEALTH

YOU CAN ONLY FIGHT WHAT YOU CAN SEE
SURVEILLANCE OF INFECTIOUS DISEASE ➔ INFORMATION FOR ACTION

RESPOND ➔ RECOVER ➔ THRIVE

MONITOR
- INTENSITY CHANGES
- GEOGRAPHIC SPREAD
- DEMOGRAPHIC SPREAD
- SEVERITY CHANGES

ESTIMATE BURDEN OF DISEASE

ASSESS DIRECTION OF RECENT TIME TRENDS

INFORM APPROPRIATE MITIGATION MEASURES

ACT

MEASURE IMPACT

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ECDC – Surveillance Objectives

The objectives of COVID-19 surveillance at national and EU/EEA level are as follows:

- **Monitor the intensity, geographic spread and severity of COVID-19 in the population** in order to estimate the burden of disease, assess the direction of recent time trends, and inform appropriate mitigation measures.
- Monitor viral changes to inform drug and vaccine development, and to identify markers of severe infection.
- Monitor changes in which risk groups are most affected in order to better target prevention efforts.
- **Monitor the epidemic’s impact on the healthcare system to predict the trajectory of the epidemic curve** and inform resource allocation and mobilisation of surge capacity as well as external emergency support.
- Monitor the impact of any mitigation measures to inform authorities so they can adjust the choice of measures, as well as their timing and intensity.

Additional objectives at national level are as follows:

- Detect and contain nosocomial outbreaks to protect healthcare workers and patients.
- Detect and contain outbreaks in long-term care facilities and other closed communities to protect those most at risk of severe disease and poor outcomes.

### METRICS

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<td>Volume and Results</td>
<td>Track test volumes and incidence/detection rates by day and assay</td>
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<td>Monitor incidence of detected results by site, ordering location and ordering provider</td>
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<td>Monitor patients tested and detected by zip/post code and insurer</td>
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<td>Patient Demographics</td>
<td>Monitor testing volumes and diagnostic rates by gender, patient age, encounter type and length of stay</td>
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ADD-00071205
Intensity of COVID-19 Spread

**METRICS**

- Monitor and assess the intensity of COVID-19 by comparing 2 time periods (e.g. month over month) by tracking:
  - test volume by assay
  - Incidence/detected rates volume and assay

**INSIGHTS**

- Identify increase/decrease of tests performed by assay
- Increase/decrease of ‘detected’ results by assay
- Identify potential outbreaks and community hot spots

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**Volume and Results**

- Track test volumes and incidence/detection rates by day and assay

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**Metrics**

**Insights**

**Test Volume by Assay**

- **SARS-COV-2 EUA**: 6,738 (3.32%)
- **COVID-19**: 5,160 (4.60%)
- **HIV Screen**: 256 (5.19%)
- **Total**: 12,154

**Incidence of “Detected” Tests Volume By Assay**

- **SARS-COV-2 EUA**: 2,685
  - 674 (25.52%)
- **COVID-19**: 2,152
  - 538 (24.91%)
- **HIV Screen**: 344
  - 19 (5.56%)
- **Total**: 4,981

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All data included in the pictures has been created for demo purposes, including patient names, IDs, clinician names, hospital names, etc.
Geographical Spread of COVID-19

Monitor potential community outbreaks of COVID-19 by comparing 2 time periods (e.g. month over month)
- By Testing Site
- By Order Location
- By Ordering Provider
- By Zip Code

Provide direction about where to focus prevention, screening and the allocation of resources.

Identify potential outbreaks and community hot spots
Geographical Spread of COVID-19

Monitor potential community outbreaks of COVID-19 by comparing 2 time periods (e.g. month over month)
- By Testing Site
- By Order Location
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- By Zip Code

Provide direction about where to focus prevention, screening and the allocation of resources.

Proactive approach, staying one step ahead of outbreaks, estimating scenarios and impact on neighbor areas.

Advise primary care, the hospital and agencies, leading infection disease programmes
Monitor COVID-19 infections by comparing 2 time periods (e.g. month over month...)

- By patient age Group
- By gender
- By encounter type

Identify risk groups related to age, gender, and encounter type
SUMMARY REPORT

METRICS

Surveillance Details

INSIGHTS

Summary report to support agency reporting of tests performed and detected cases for disease surveillance

Test Surveillance Demographics

<table>
<thead>
<tr>
<th>PATIENT ID</th>
<th>PATIENT AGE</th>
<th>PATIENT GENDER</th>
<th>PATIENT ETHNICITY</th>
<th>ENCOUNTER TYPE</th>
<th>ORDER ID</th>
<th>SAMPLE RECEIVED DT</th>
<th>ORDER REQUEST NAME</th>
<th>ORDERING PROVIDER</th>
<th>TESTING SITE</th>
<th>SAMPLE ID</th>
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<tbody>
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<td>Northside Hospital</td>
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<td>COVID-19</td>
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<td>Covid-19 EUA</td>
<td>Sarah Chung</td>
<td>Central Hospital</td>
<td>SA1096778</td>
<td>SARS-COV-2 EUA</td>
<td>Positive</td>
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<td>PA1000013</td>
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<td>COVID-19</td>
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