Abbott

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

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ADD-00071205

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

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	INSIGHTS
Volume and Results	Track test volumes and incidence/detection rates by day and assay
Analysis of "Detected" Tests	Monitor incidence of detected results by site, ordering location and ordering provider
Population Demographics	Monitor patients tested and detected by zip/post code and insurer
Patient Demographics	Monitor testing volumes and diagnostic rates by gender, patient age, encounter type and length of stay
Surveillance Details	Summary report to support agency reporting of tests performed and detected cases for disease surveillance

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Intensity of COVID-19 Spread

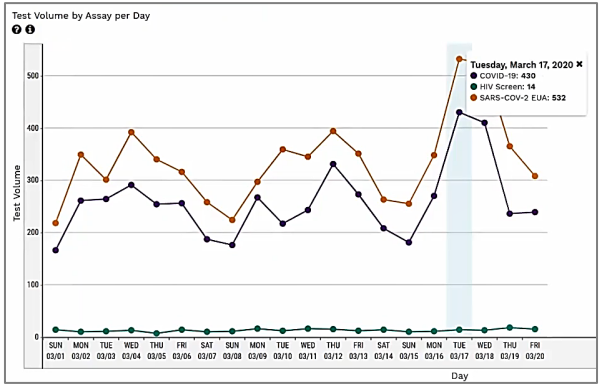
METRICS	INSIGHTS
Volume and Results	Track test volumes and incidence/detection rates by day and assay

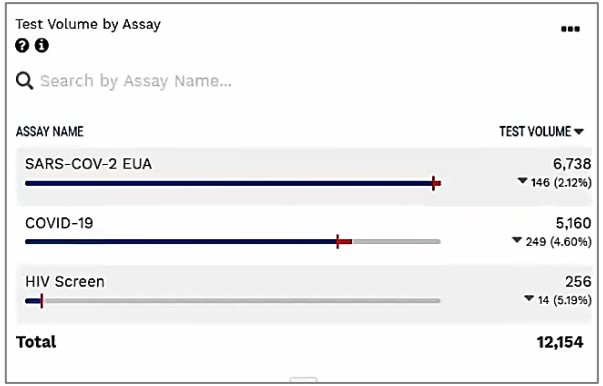
Monitor and assess the intensity of COVID-19 by comparing 2 time periods (e.g. month over month) by tracking

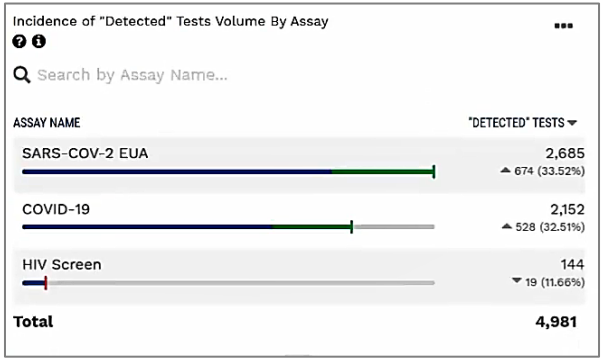
- test volume by assay
- Incidence/detected rates volume and assay

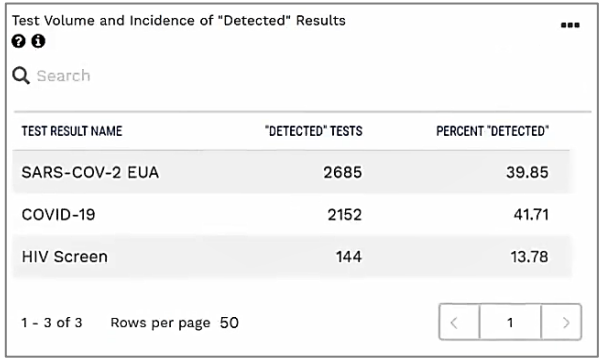
Identify increase/decrease of tests performed by assay increase/decrease of 'detected' results by assay

Identify potential outbreaks and community hot spots









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Geographical Spread of COVID-19

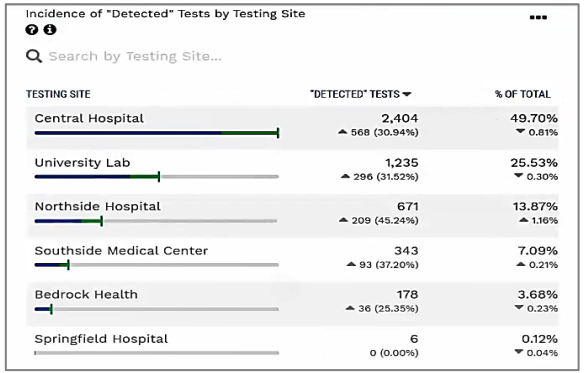
METRICS	INSIGHTS
Analysis of “Detected” Tests	Monitor incidence of detected results by site, ordering location and ordering provider

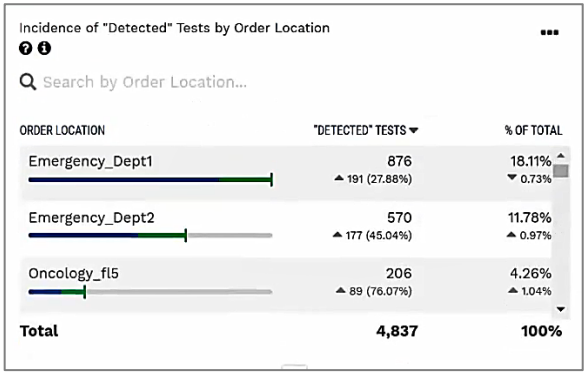
Monitor potential community outbreaks of COVID-19 by comparing 2 time periods (e.g. month over month)

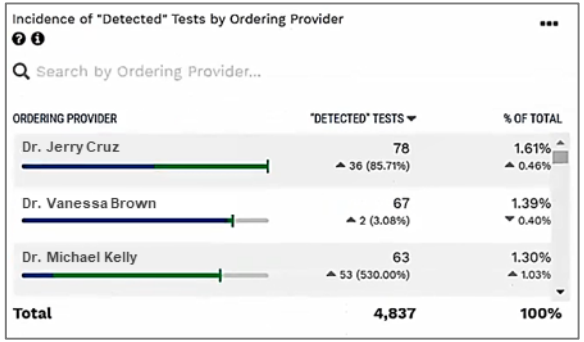
- By Testing Site
- By Order Location
- By Ordering Provider
- By Zip Code

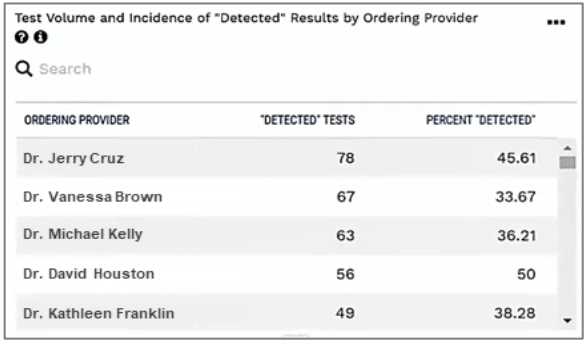
Provide direction about where to focus prevention, screening and the allocation of resources.

Identify potential outbreaks and community hot spots









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Geographical Spread of COVID-19

METRICS	INSIGHTS
Population Demographics	Monitor patients tested and detected by zip/post code and insurer

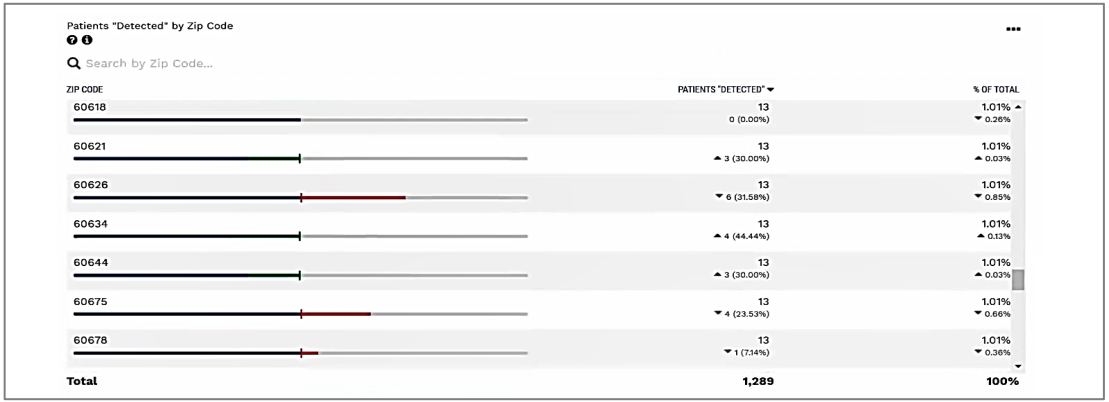
Monitor potential community outbreaks of COVID-19 by comparing 2 time periods (e.g. month over month)

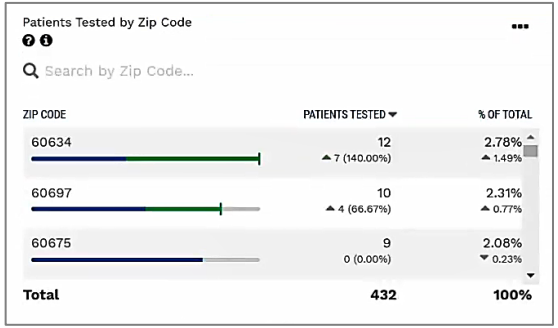
- By Testing Site
- By Order Location
- By Ordering Provider
- By Zip Code

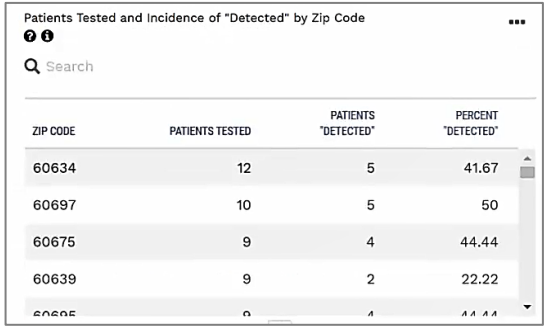
Provide direction about where to focus prevention, screening and the allocation of resources.

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







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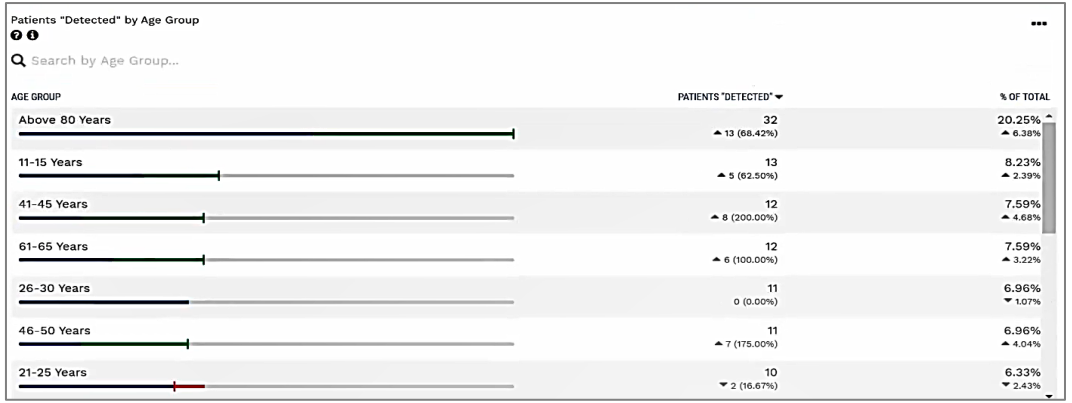
Demographic Spread

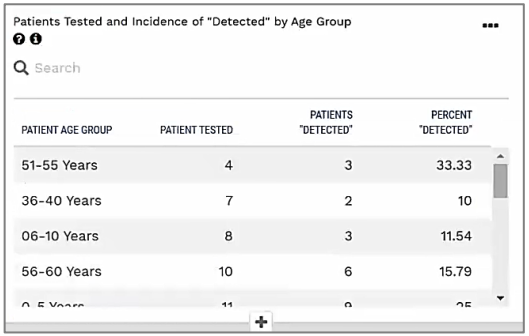
METRICS	INSIGHTS
Patient Demographics	Monitor testing volumes and diagnostic rates by gender, patient age, encounter type and length of stay

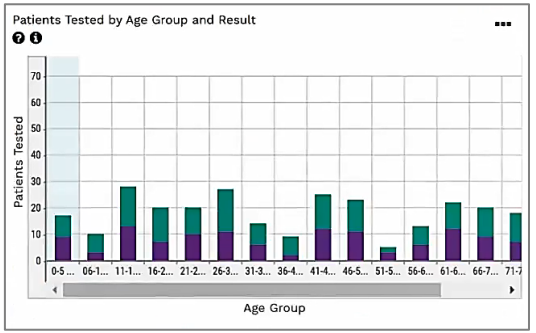
Monitor COVID-19 infections by comparing 2 time periods (e.g. month over month…)

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

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







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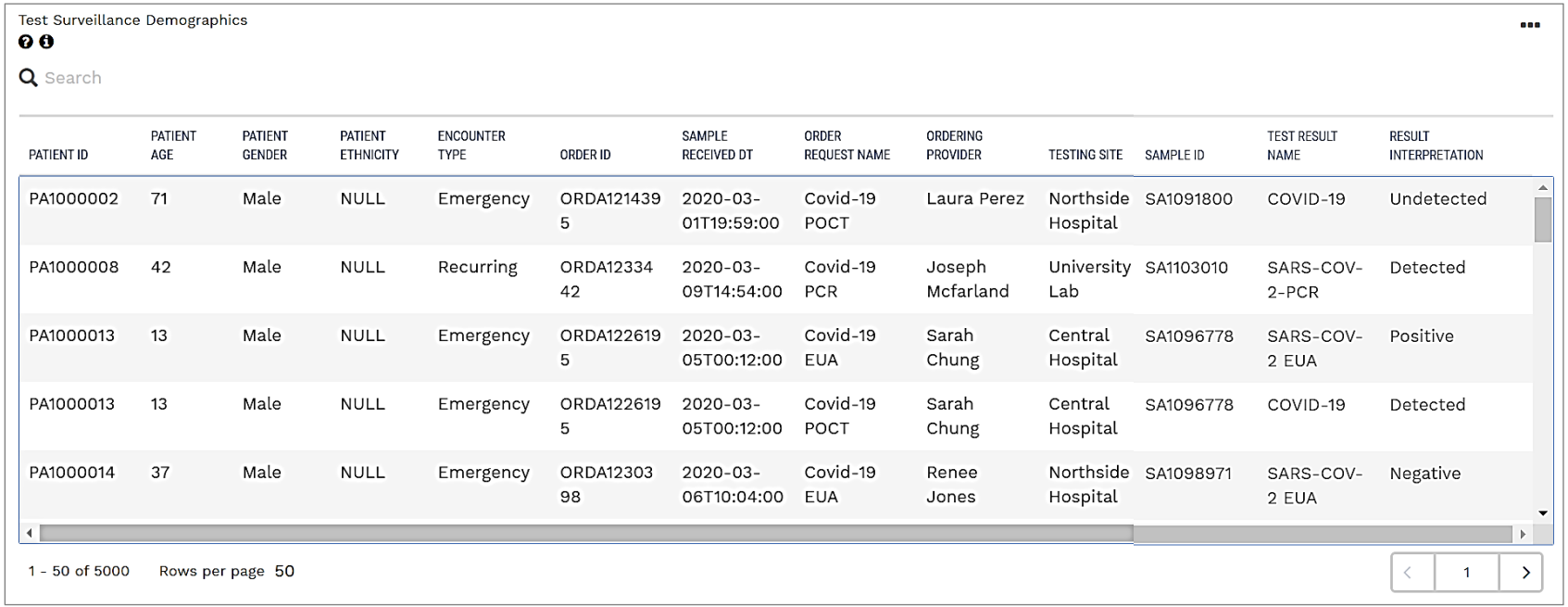
SUMMARY REPORT

METRICS	INSIGHTS
Surveillance Details	Summary report to support agency reporting of tests performed and detected cases for disease surveillance



PATIENT ID	PATIENT AGE	PATIENT GENDER	PATIENT ETHNICITY	ENCOUNTER TYPE	ORDER ID	SAMPLE RECEIVED DT	ORDER REQUEST NAME	ORDERING PROVIDER	TESTING SITE	SAMPLE ID	TEST RESULT NAME	RESULT INTERPRETATION
PA1000002	71	Male	NULL	Emergency	ORDA1214395	2020-03-01T19:59:00	Covid-19 POCT	Laura Perez	Northside Hospital	SA1091800	COVID-19	Undetected
PA1000008	42	Male	NULL	Recurring	ORDA1233442	2020-03-09T14:54:00	Covid-19 PCR	Joseph Mcfarland	University Lab	SA1103010	SARS-COV-2-PCR	Detected
PA1000013	13	Male	NULL	Emergency	ORDA1226195	2020-03-05T00:12:00	Covid-19 EUA	Sarah Chung	Central Hospital	SA1096778	SARS-COV-2 EUA	Positive
PA1000013	13	Male	NULL	Emergency	ORDA1226195	2020-03-05T00:12:00	Covid-19 POCT	Sarah Chung	Central Hospital	SA1096778	COVID-19	Detected
PA1000014	37	Male	NULL	Emergency	ORDA1230398	2020-03-06T10:04:00	Covid-19 EUA	Renee Jones	Northside Hospital	SA1098971	SARS-COV-2 EUA	Negative

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