

WEEKLY RESPIRATORY PATHOGENS SURVEILLANCE REPORT

SOUTH AFRICA WEEK 18 2021

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CUMULATIVE DATA FROM



HIGHLIGHTS: WEEK 18

- RSV activity continues in all provinces but 2021 RSV season has not started yet.

- One new case of influenza B (Victoria) from Gauteng was detected in this current reporting week (week 18) in addition to six cases reported in the previous report. To date, influenza cases have been detected from Gauteng, Western Cape and KwaZulu-Natal sentinel surveillance sites. Influenza season has not started.

- From 2 March 2020 to 09 May 2021, a total of 1 282 COVID-19 cases were detected from all surveillance programmes. An increase in number of new cases detected in the current reporting week has been noted in both influenza-like illness (ILI) and in pneumonia surveillance programme compared to previous weeks. Of the 928 hospitalised COVID-19 cases reported with available data on outcome, 131 (14%) died

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PROGRAMME DESCRIPTIONS

Programme	Influenza-like illness (ILI)	Viral Watch	National syndromic surveillance for pneumonia
Start year	2012	1984	2009
Provinces*	KZ NW WC** MP***	EC FS GP LP MP NC NW WC	GP KZ MP NW WC
Type of site	Primary health care clinics	General practitioners	Public hospitals
Case definition	<p>ILI: An acute respiratory illness with a temperature ($\geq 38^{\circ}\text{C}$) and cough, & onset ≤ 10 days</p> <p>Suspected pertussis Any person with an acute cough illness lasting ≥ 14 days (or cough illness of any duration for children < 1 year), without a more likely diagnosis AND one or more of the following signs or symptoms:</p> <ul style="list-style-type: none"> • paroxysms of coughing, • or inspiratory “whoop”, • or post-tussive vomiting • or apnoea in children < 1 year; <p style="text-align: center;">OR</p> <p>Any person in whom a clinician suspects pertussis</p> <p>Suspected SARS-CoV-2 Any person presenting with an acute (≤ 14 days) respiratory tract infection or other clinical illness compatible with COVID-19[§]</p>	<p>ILI: An acute respiratory illness with a temperature ($\geq 38^{\circ}\text{C}$) and cough, & onset ≤ 10 days</p> <p>Suspected SARS-CoV-2 Any person presenting with an acute (≤ 14 days) respiratory tract infection or other clinical illness compatible with COVID-19[§]</p>	<p>SRI: Acute (symptom onset ≤ 10 days) or chronic (symptom onset > 10) lower respiratory tract infection</p> <p>Suspected pertussis Any person with an acute cough illness lasting ≥ 14 days (or cough illness of any duration for children < 1 year), without a more likely diagnosis AND one or more of the following signs or symptoms:</p> <ul style="list-style-type: none"> • paroxysms of coughing, • or inspiratory “whoop”, • or post-tussive vomiting • or apnoea in children < 1 year; <p style="text-align: center;">OR</p> <p>Any person in whom a clinician suspects pertussis.</p> <p>Suspected SARS-CoV-2 Any person admitted with a physician-diagnosis of suspected COVID-19 and not meeting SRI case definition.</p>
Specimens collected	Oropharyngeal & nasopharyngeal swabs	Throat and/or nasal swabs or Nasopharyngeal swabs	Oropharyngeal & nasopharyngeal swabs
Main pathogens tested****	INF RSV BP SARS-CoV-2	INF RSV BP SARS-CoV-2	INF RSV BP SARS-CoV-2

Epidemic Threshold

Thresholds are calculated using the Moving Epidemic Method (MEM), a sequential analysis using the R Language, available from: <http://CRAN.R-project.org/web/package=mem> designed to calculate the duration, start and end of the annual influenza epidemic. MEM uses the 40th, 90th and 97.5th percentiles established from available years of historical data to calculate thresholds of activity. Thresholds of activity for influenza and RSV are defined as follows: Below seasonal threshold, Low activity, Moderate activity, High activity, Very high activity. For influenza, thresholds from outpatient influenza like illness (Viral Watch Programme) are used as an indicator of disease transmission in the community and thresholds from pneumonia surveillance are used as an indicator of impact of disease.

* EC: Eastern Cape; FS: Free State; GP: Gauteng; KZ: KwaZulu-Natal; LP: Limpopo; MP: Mpumalanga; NC: Northern Cape; NW: North West; WC: Western Cape

**Started in 2019

***Started in November 2020

****INF: influenza virus; RSV: respiratory syncytial virus; BP: *Bordetella pertussis*; SARS-CoV-2: severe acute respiratory syndrome coronavirus 2

§Symptoms include ANY of the following respiratory symptoms: cough, sore throat, shortness of breath, anosmia (loss of sense of smell) or dysgeusia (alteration of the sense of taste), with or without other symptoms (which may include fever, weakness, myalgia, or diarrhoea)

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COMMENTS

Influenza

The influenza 2021 season has not started. The first influenza positive case of 2021 was detected in pneumonia surveillance in week 9 of 2021 (week ending on the 07 March 2021).

ILI programme: In 2021 to date, specimens from 549 patients meeting ILI case definition were received from 4 ILI sites. Influenza B (Victoria) was detected in a specimen of one (0.2%) patient. (Figure 1 and Table 1).

Viral Watch programme: During the same period, specimens were received from 44 patients from Viral Watch sites in three of the 8 provinces participating in surveillance. Influenza was not detected. (Figure 5 and Table 4).

Pneumonia surveillance: Since the beginning of 2021, specimens from 1 742 patients with severe respiratory illness (SRI) were received from the 6 sentinel sites. Influenza was detected in three patients, of which one (0.1%) was influenza A(H3N2) and two (0.1%) influenza B (Victoria). (Figure 9 and Table 7).

In addition, influenza B (Victoria) was detected in three of 318 (1%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet the pneumonia/ILI surveillance case definitions.

Respiratory syncytial virus

In 2021 to date, RSV transmission has been reported from all surveillance programmes, activity remains below seasonal threshold.

ILI programme: In 2021 to date, 549 specimens were tested and RSV was detected in specimens of 55 (10%) patients.

Viral Watch programme: During the same period, 44 specimens were tested and RSV was detected in specimens of five (11%) patients.

Pneumonia surveillance: Since the beginning of 2021, 1 742 specimens were tested and RSV was detected in specimens of 241 (14%) patients.

In addition, RSV was detected in 17 of 318 (5%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet the pneumonia/ILI surveillance case definitions.

SARS-CoV-2 (Severe acute respiratory syndrome coronavirus 2)

Testing for SARS-CoV-2 was initiated in all three surveillance programmes in week 10 (week starting 2 March 2020).

ILI programme: From March 2020 to date, specimens from 1 859 patients were tested and SARS-CoV-2 was detected in 307 (17%) patients.

Viral Watch programme: From March 2020 to date, specimens were tested from 323 patients and SARS-CoV-2 was detected in 43 (13%) patients.

Pneumonia surveillance: From March 2020 to date, specimens from 5 598 patients with severe respiratory illness (SRI) were tested and SARS-CoV-2 was detected in 932 (17%) patients.

In addition, SARS-CoV-2 was detected in 72 of 504 (14%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet the pneumonia/ILI surveillance case definitions.

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE PRIMARY HEALTH CARE CLINICS

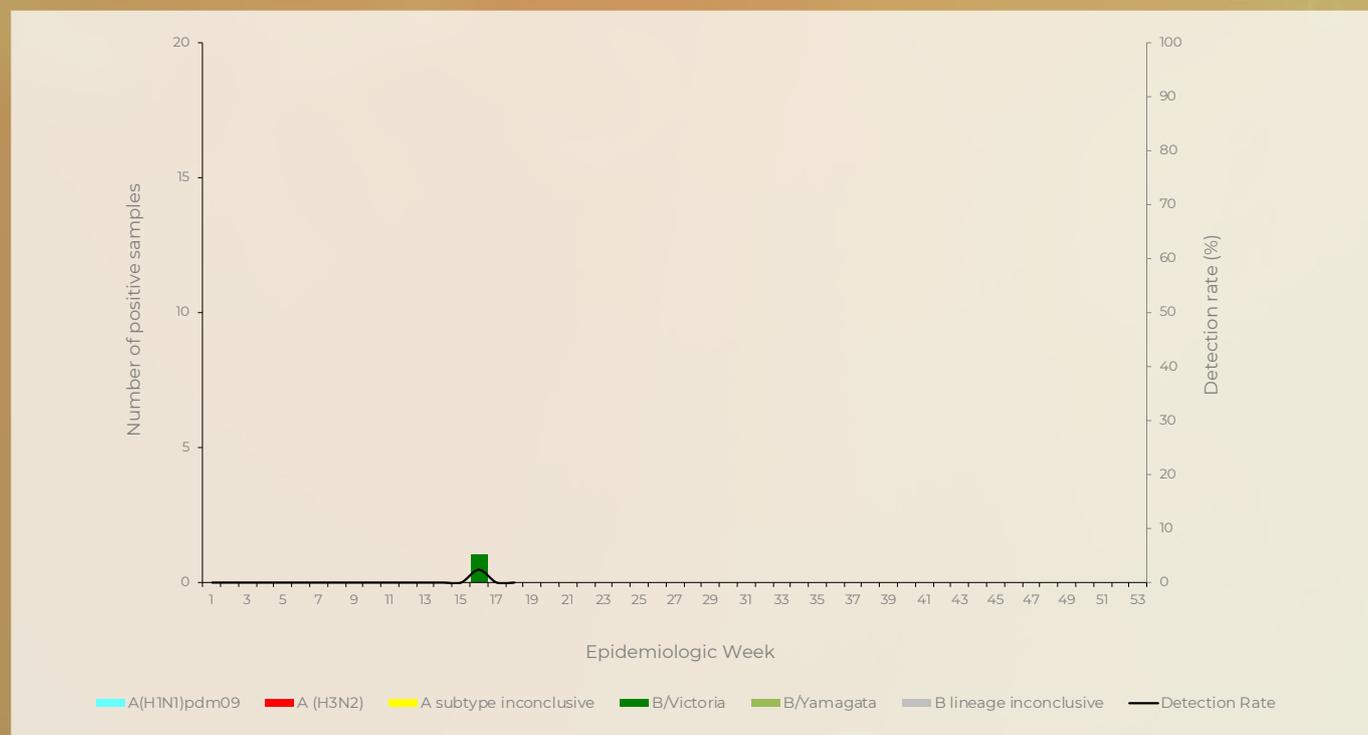


Figure 1. Number of positive samples* by influenza subtype and lineage** and detection rate*** by week

*Specimens from patients with influenza-like illnesses at 5 sentinel sites in 4 provinces

**Influenza B (Victoria) was detected from two of 245 (0.8%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet Influenza-like illness (ILI) case definition. This is not included in the epidemiological curve.

***Only reported for weeks with >10 specimens submitted

Inconclusive: insufficient viral load in sample and unable to characterise further

Table 1. Cumulative number of influenza subtype and lineage** and total number of samples tested by clinic and province

Clinic (Province)	A(H1N1) pdm09	A(H3N2)	A subtype inconclusive	B/Victoria	B/Yamagata	B lineage inconclusive	Total samples
Agincourt (MP)	0	0	0	0	0	0	87
Eastridge (WC)	0	0	0	0	0	0	104
Edendale Gateway (KZ)	0	0	0	1	0	0	79
Jouberton (NW)	0	0	0	0	0	0	211
Mitchell's Plain (WC)	0	0	0	0	0	0	68
Total:	0	0	0	1	0	0	549

KZ: KwaZulu-Natal; NW: North West; WC: Western Cape; MP: Mpumalanga

Inconclusive: insufficient viral load in sample and unable to characterise further

**Influenza B (Victoria) was detected from two of 245 (0.8%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet Influenza-like illness (ILI) case definition. This is not included in the table.

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE PRIMARY HEALTH CARE CLINICS

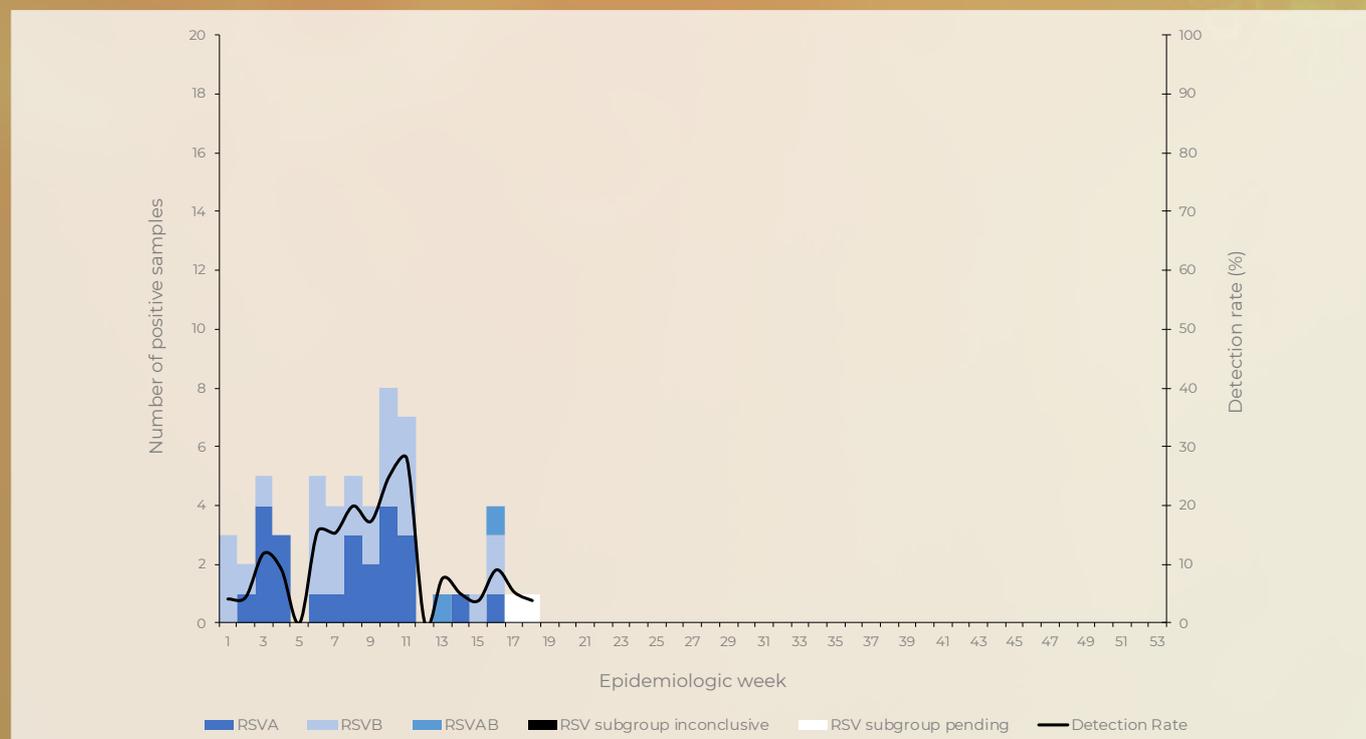


Figure 2. Number of samples testing positive for respiratory syncytial virus** by subgroup and detection rate by week

Inconclusive: insufficient viral load in sample and unable to characterise further
 RSV AB: Both RSV A and B subgroup identified
 RSV subgroup pending: means RSV results for subgroups are pending

**RSV was detected from 12 of 245 (5%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet influenza-like illness (ILI) case definition. These are not included in the epidemiological curve.

Table 2. Cumulative number of respiratory syncytial virus subgroups** identified and total number of samples tested by clinic and province

Clinic (Province)	RSVA	RSVB	RSVAB	RSV subgroup inconclusive	RSV subgroup pending*	Total samples
Agincourt (MP)	11	7	1	0	0	87
Eastridge (WC)	9	0	1	0	0	104
Edendale Gateway (KZ)	1	5	0	0	1	79
Jouberton (NW)	2	15	0	0	0	211
Mitchell's Plain (WC)	1	0	0	0	1	68
Total	24	27	2	0	2	549

KZ: KwaZulu-Natal; NW: North West; WC: Western Cape; MP: Mpumalanga
 Inconclusive: insufficient viral load in sample and unable to characterise further
 RSV AB: Both RSV A and B subgroup identified
 *RSV results for subgroups are pending

**RSV was detected from 12 of 245 (5%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet influenza-like illness (ILI) case definition. These are not included in the table.

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE PRIMARY HEALTH CARE CLINICS

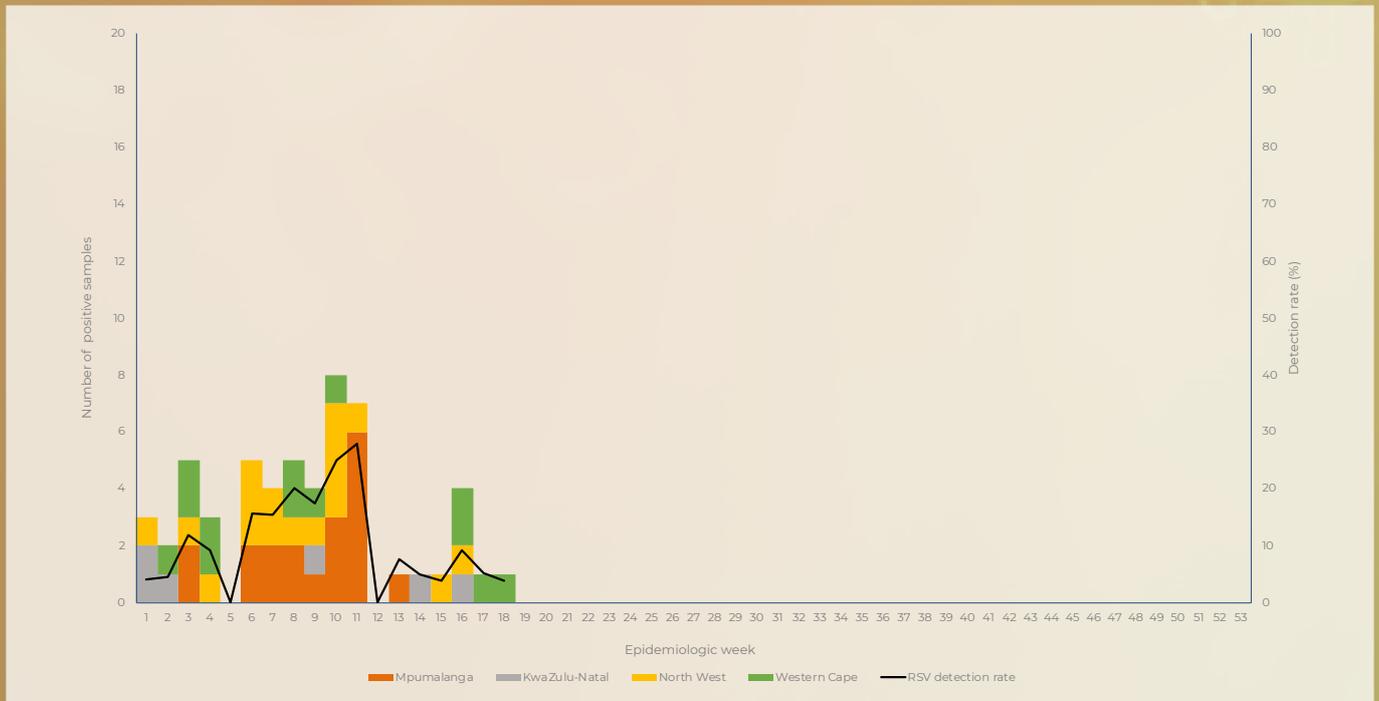


Figure 3. Number of samples testing positive for respiratory syncytial virus* by province and detection rate by week

*RSV was detected from 12 of 245 (5%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet influenza-like illness (ILI) case definition. These are not included in the epidemiological curve.

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE PRIMARY HEALTH CARE CLINICS

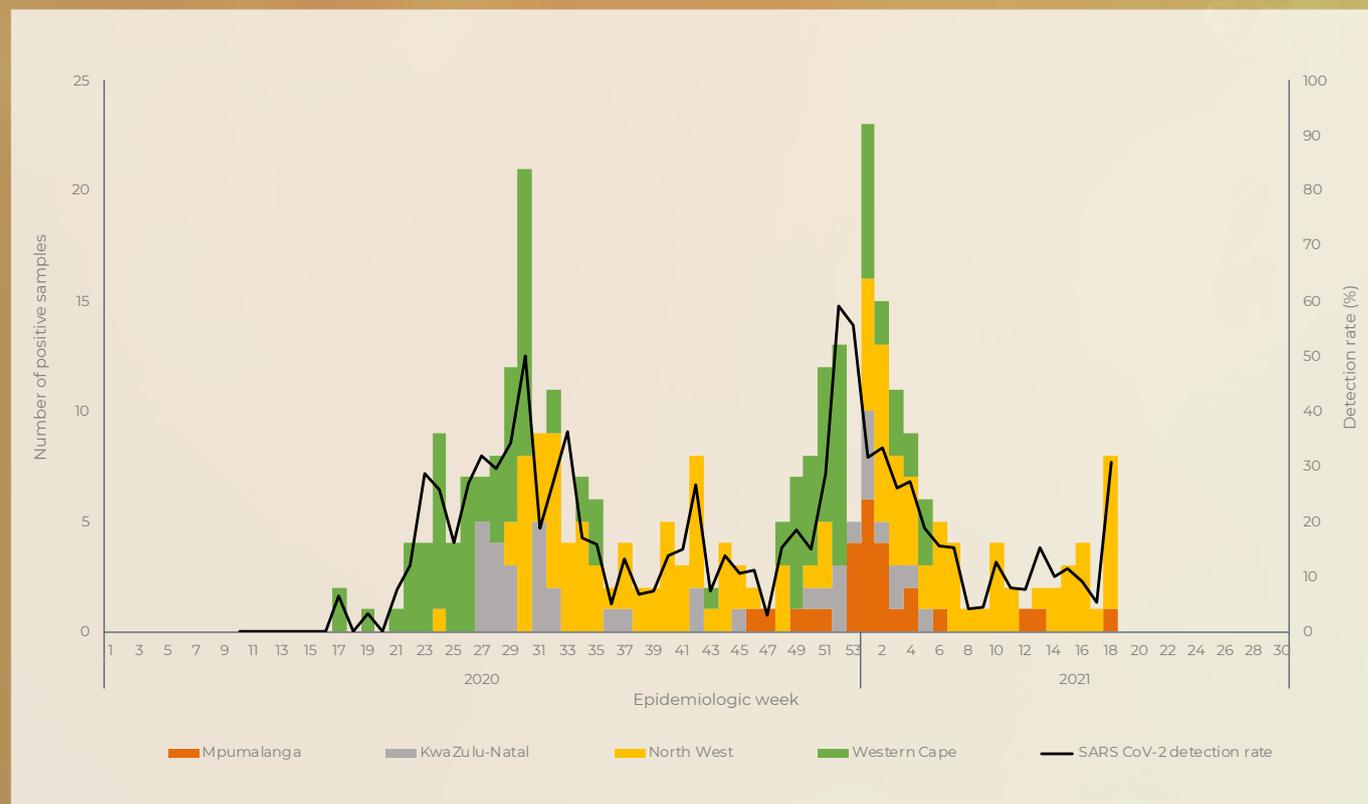


Figure 4. Number of samples testing positive for SARS-CoV-2*[§] by province and detection rate by week

*Specimens from patients with influenza-like illnesses at 5 sentinel sites in 4 provinces

[§]SARS-CoV-2 was detected in 53 of 372 (14%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet influenza-like illness (ILI) case definition. These are not included in the epidemiological curve.

Table 3. Cumulative number of SARS-CoV-2** identified and total number of samples tested by clinic and province

Clinic (Province)	SARS-CoV-2 positive	Total samples tested
Agincourt (MP)	26	116
Eastridge (WC)	47	592
Edendale Gateway (KZ)	39	220
Jouberton (NW)	130	534
Mitchell's Plain (WC)	65	397
Total:	307	1859

KZ: KwaZulu-Natal; NW: North West; WCP: Western Cape; MP: Mpumalanga (started enrolling on the 10th November 2020)

**SARS-CoV-2 was detected in 53 of 372 (14%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet influenza-like illness (ILI) case definition. These are not included in the table.

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

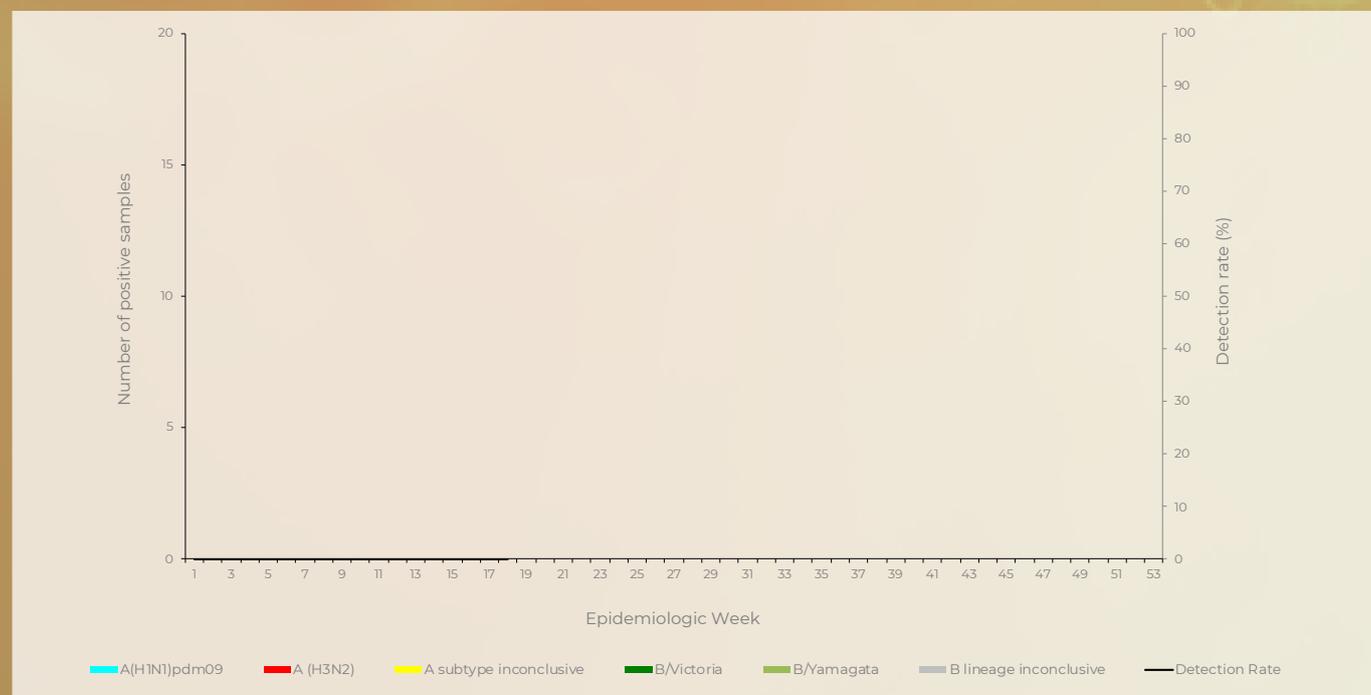


Figure 5. Number of positive samples* by influenza subtype and lineage and detection rate** by week

*Specimens from patients with Influenza-like illnesses at 92 sentinel sites in 8 provinces

** Only reported for weeks with >10 specimens submitted.

Inconclusive: insufficient viral load in sample and unable to characterise further

Table 4. Cumulative number of influenza subtype and lineage and total number of samples tested by province

Province	A(H1N1) pdm09	A(H3N2)	A subtype inconclusive	B/Victoria	B/Yamagata	B lineage inconclusive	Total samples
Eastern Cape	0	0	0	0	0	0	0
Free State	0	0	0	0	0	0	0
Gauteng	0	0	0	0	0	0	38
Limpopo	0	0	0	0	0	0	0
Mpumalanga	0	0	0	0	0	0	1
North West	0	0	0	0	0	0	0
Northern Cape	0	0	0	0	0	0	0
Western Cape	0	0	0	0	0	0	5
Total:	0	0	0	0	0	0	44

Inconclusive: insufficient viral load in sample and unable to characterise further

From 04 January 2021 to date, no patients were tested for influenza at the time of entry into South Africa following travel abroad.

Patients known to have acquired influenza abroad are not included in the table or epidemiological curve.

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

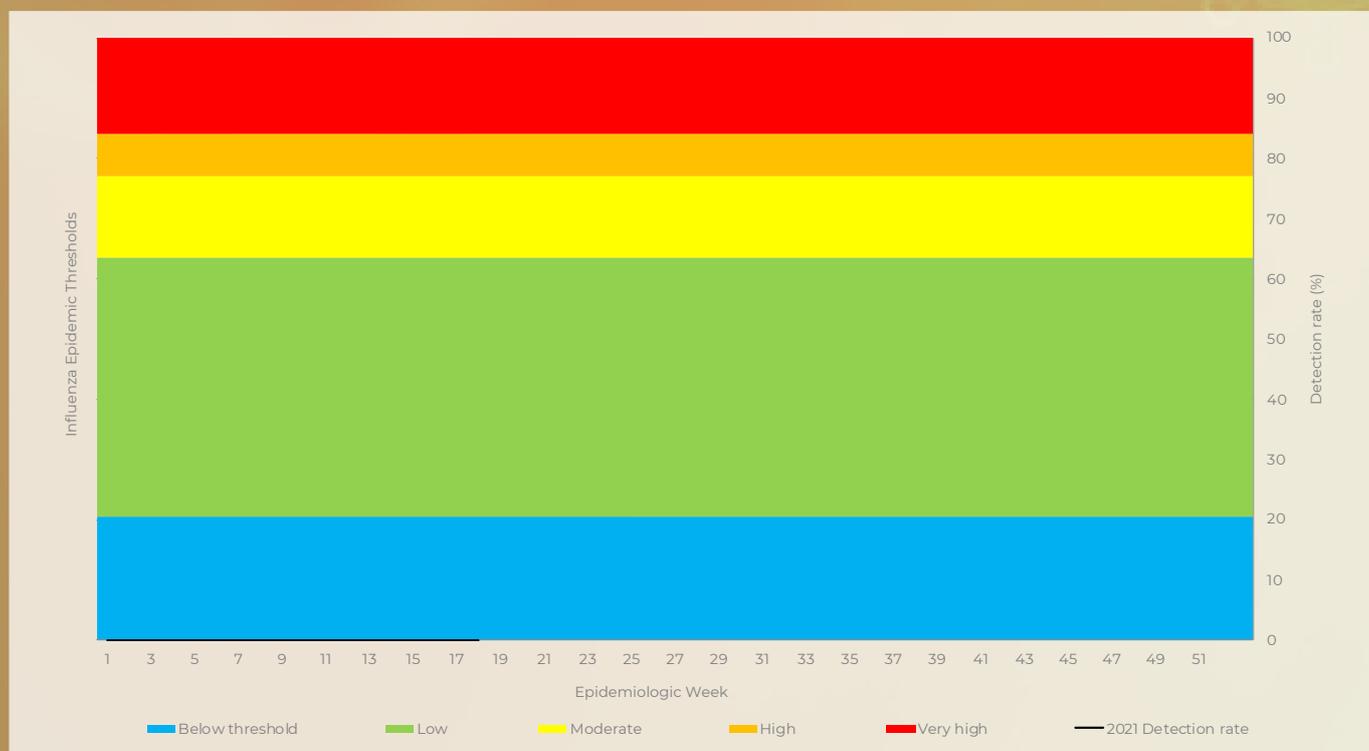


Figure 6. ILI surveillance (Viral Watch) percentage influenza detections and epidemic thresholds*

*Thresholds based on 2010-2019 data

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

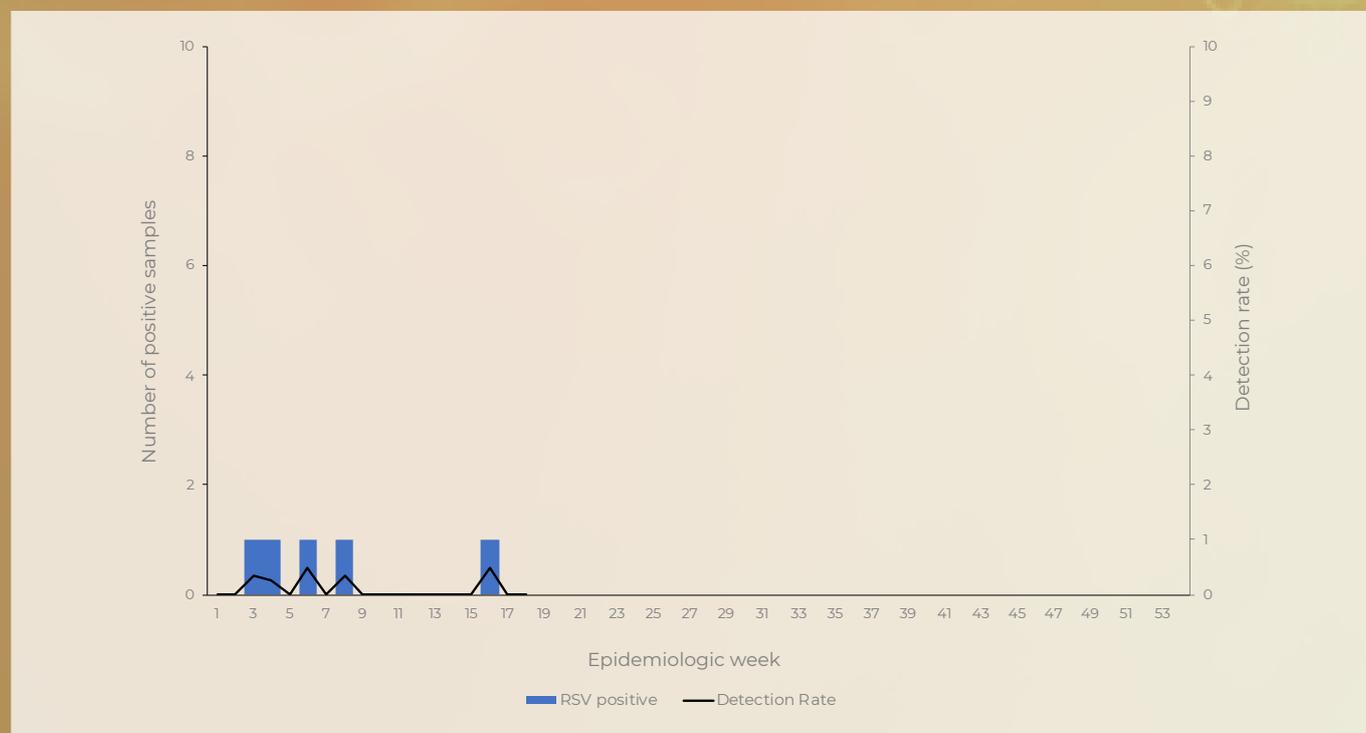


Figure 7. Number of samples testing positive for RSV*, and detection rate by week

*Specimens from patients with Influenza-like illnesses at 92 sentinel sites in 8 provinces

Table 5. Cumulative number of RSV positive cases identified and total number of samples tested by province

Province	RSV positive	Total samples tested
Eastern Cape	0	0
Free State	0	0
Gauteng	4	38
Limpopo	0	0
Mpumalanga	0	1
North West	0	0
Northern Cape	0	0
Western Cape	1	5
Total:	5	44

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

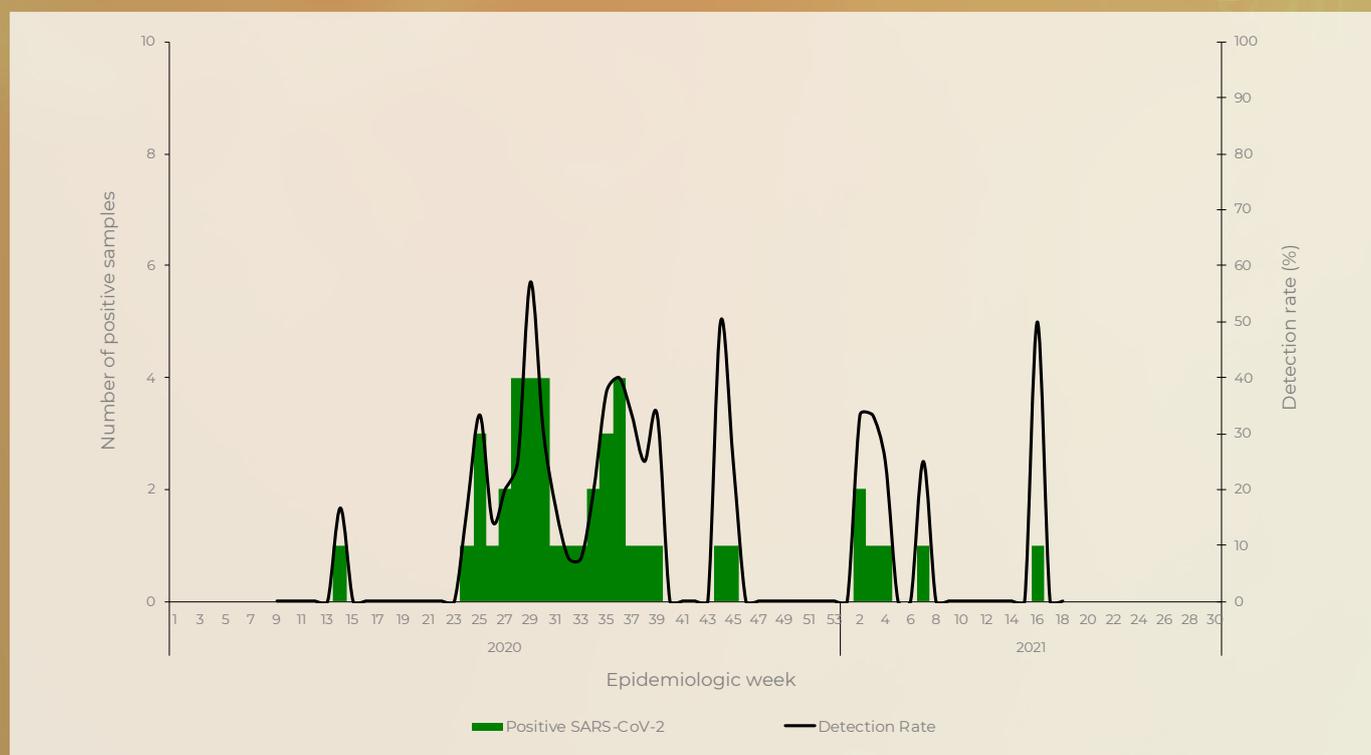


Figure 8. Number of samples testing positive for SARS-CoV-2*, and detection rate by week

*Specimens from patients with Influenza-like illnesses at 92 sentinel sites in 8 provinces

Table 6. Cumulative number of SARS-CoV-2 identified and total number of samples tested by province

Hospital (Province)	SARS-CoV-2 positive	Total samples
Eastern Cape	1	4
Free State	1	14
Gauteng	30	198
Limpopo	0	2
Mpumalanga	1	6
North West	0	0
Northern Cape	0	2
Western Cape	10	97
Total:	43	323

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NATIONAL SYNDROMIC SURVEILLANCE FOR PNEUMONIA

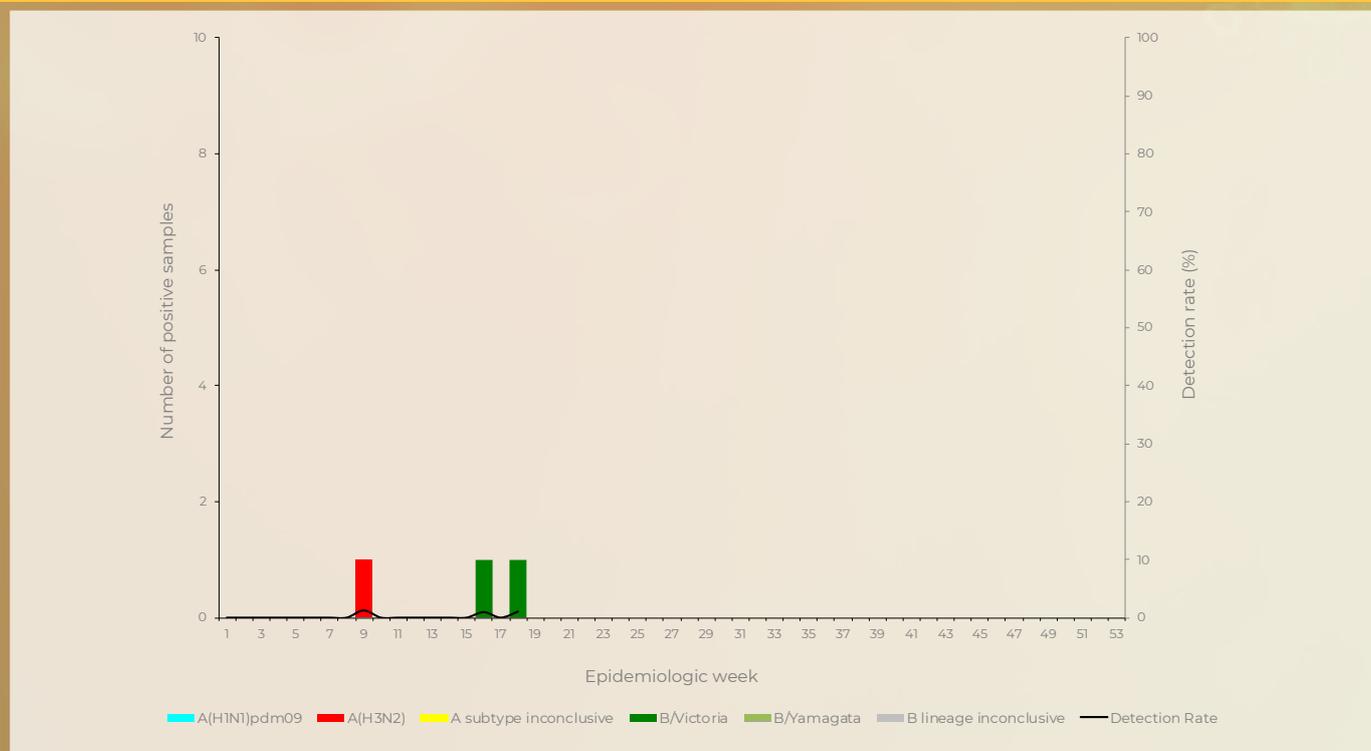


Figure 9. Number of positive samples* by influenza subtype and lineage** and detection rate*** by week

*Specimens from patients hospitalised with pneumonia at 7 sentinel sites in 5 provinces

**Influenza B(Victoria) was detected from one of 73 (1.4%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet pneumonia (SRI) case definition. These are not included in the epidemiological curve.

***Only reported for weeks with >10 specimens submitted

Inconclusive: insufficient viral load in sample and unable to characterise further

Table 7. Cumulative number of identified influenza subtype and lineage** and total number of samples tested by hospital

Province	A(H1N1) pdm09	A(H3N2)	A subtype inconclusive	B/Victoria	B/Yamagata	B lineage inconclusive	Total samples
Edendale (KZ)	0	0	0	1	0	0	234
Helen Joseph-Rahima Moosa (GP)	0	0	0	1	0	0	512
Klerksdorp-Tshepong (NW)	0	0	0	0	0	0	254
Mapulaneng-Matikwana (MP)	0	0	0	0	0	0	238
Red Cross (WC)	0	0	0	0	0	0	249
Mitchell's Plain (WC)	0	1	0	0	0	0	195
Tintswalo (MP)	0	0	0	0	0	0	60
Total:	0	1	0	2	0	0	1 742

GP: Gauteng; KZ: KwaZulu-Natal; NW: North West; MP: Mpumalanga (Tintswalo started enrolling on the 10th Feb 2021); WC: Western Cape
Inconclusive: insufficient viral load in sample and unable to characterise further

**Influenza B(Victoria) was detected from one of 73 (1.4%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet pneumonia (SRI) case definition. These are not included in the table.

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NATIONAL SYNDROMIC SURVEILLANCE FOR PNEUMONIA

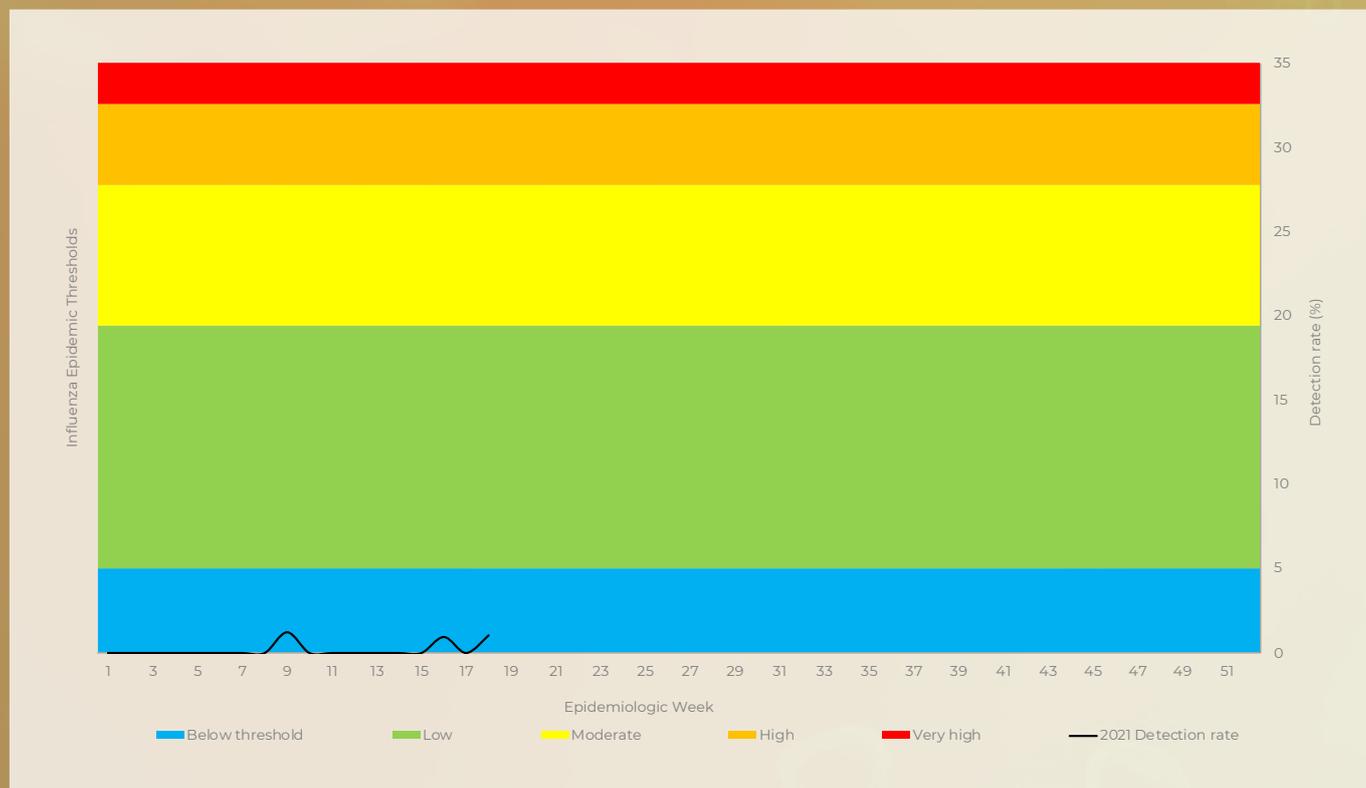


Figure 10. National syndromic surveillance for pneumonia percentage influenza detections and epidemic thresholds*

*Thresholds based on 2010-2019 data

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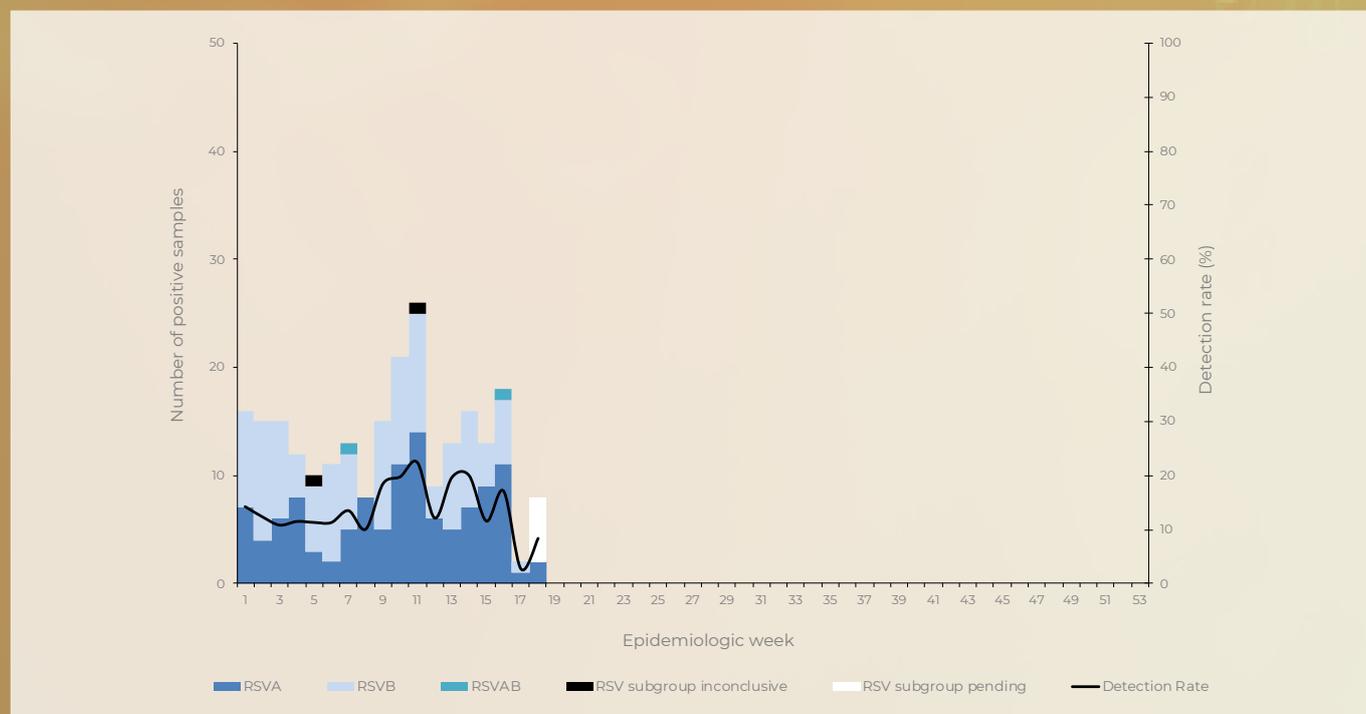


Figure 11. Number of samples testing positive for respiratory syncytial virus* by subgroup and detection rate by week

Inconclusive: insufficient viral load in sample and unable to characterise further

RSV AB: Both RSV A and B subgroup identified

RSV subgroup pending: means RSV results for subgroups are pending

*RSV was detected in five of 73 (7%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet pneumonia (SRI) case definition. These are not included in the epidemiological curve.

Table 8: Cumulative number of respiratory syncytial virus** subgroups identified and total number of samples tested by hospital

Hospital (Province)	RSVA	RSVB	RSVAB	RSV subgroup inconclusive	RSV subgroup pending*	Total samples
Edendale (KZ)	4	22	0	0	0	234
Helen Joseph-Rahima Moosa (GP)	30	39	0	0	2	512
Klerksdorp-Tshepong (NW)	8	37	0	2	1	254
Mapulaneng-Matikwana (MP)	19	6	1	0	1	238
Red Cross (WC)	33	7	0	0	2	249
Mitchell's Plain (WC)	10	3	1	0	0	195
Tintswalo (MP)	10	3	0	0	0	60
Total:	114	117	2	2	6	1 742

GP: Gauteng; KZ: KwaZulu-Natal; NW: North West; MP: Mpumalanga (Tintswalo started enrolling on the 10th Feb 2021); WC: Western Cape

Inconclusive: insufficient viral load in sample and unable to characterise further

RSV AB: Both RSV A and B subgroup identified

*RSV results for subgroups are pending

**RSV was detected in five of 73 (7%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet pneumonia (SRI) case definition. These are not included in the table.

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NATIONAL SYNDROMIC SURVEILLANCE FOR PNEUMONIA

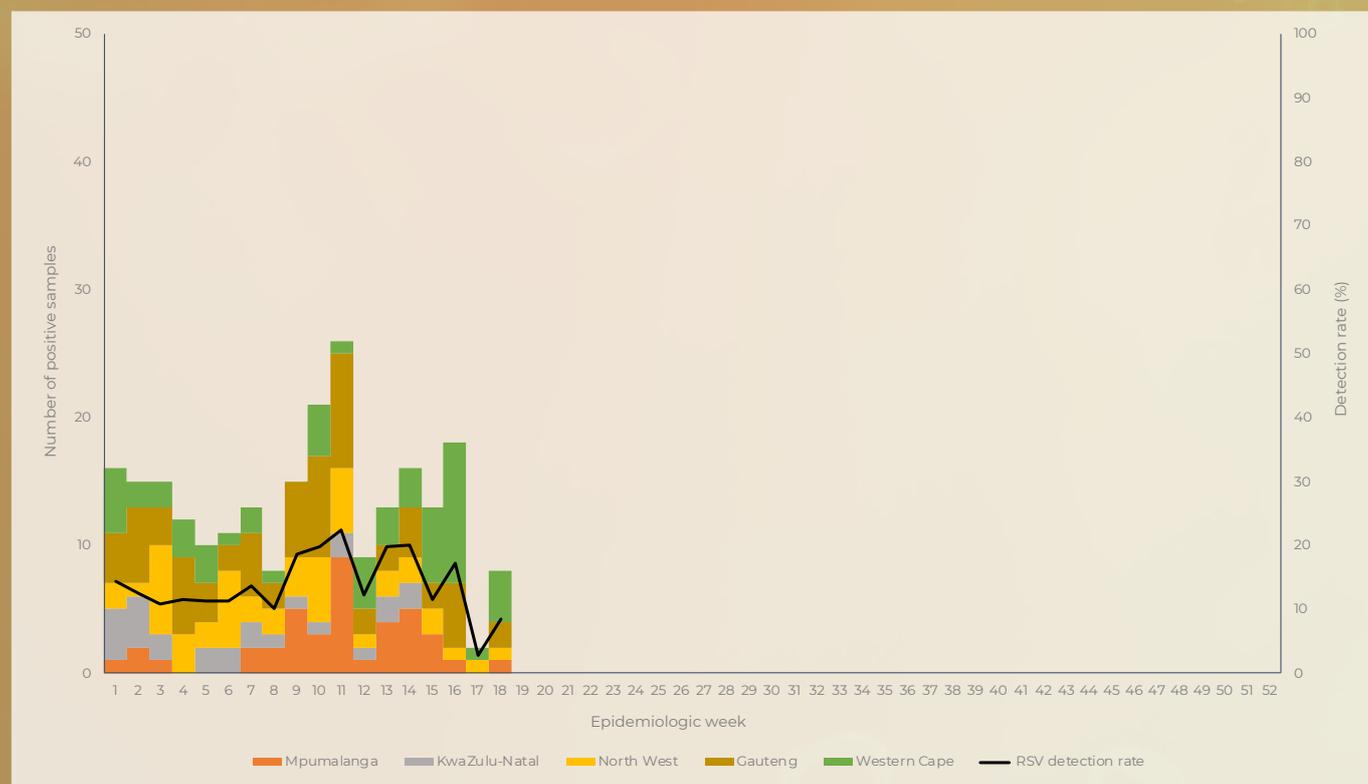


Figure 12. Number of samples testing positive for respiratory syncytial virus* by province and detection rate by week

*RSV was detected in five of 73 (7%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet pneumonia (SRI) case definition. These are not included in the epidemiological curve.

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NATIONAL SYNDROMIC SURVEILLANCE FOR PNEUMONIA

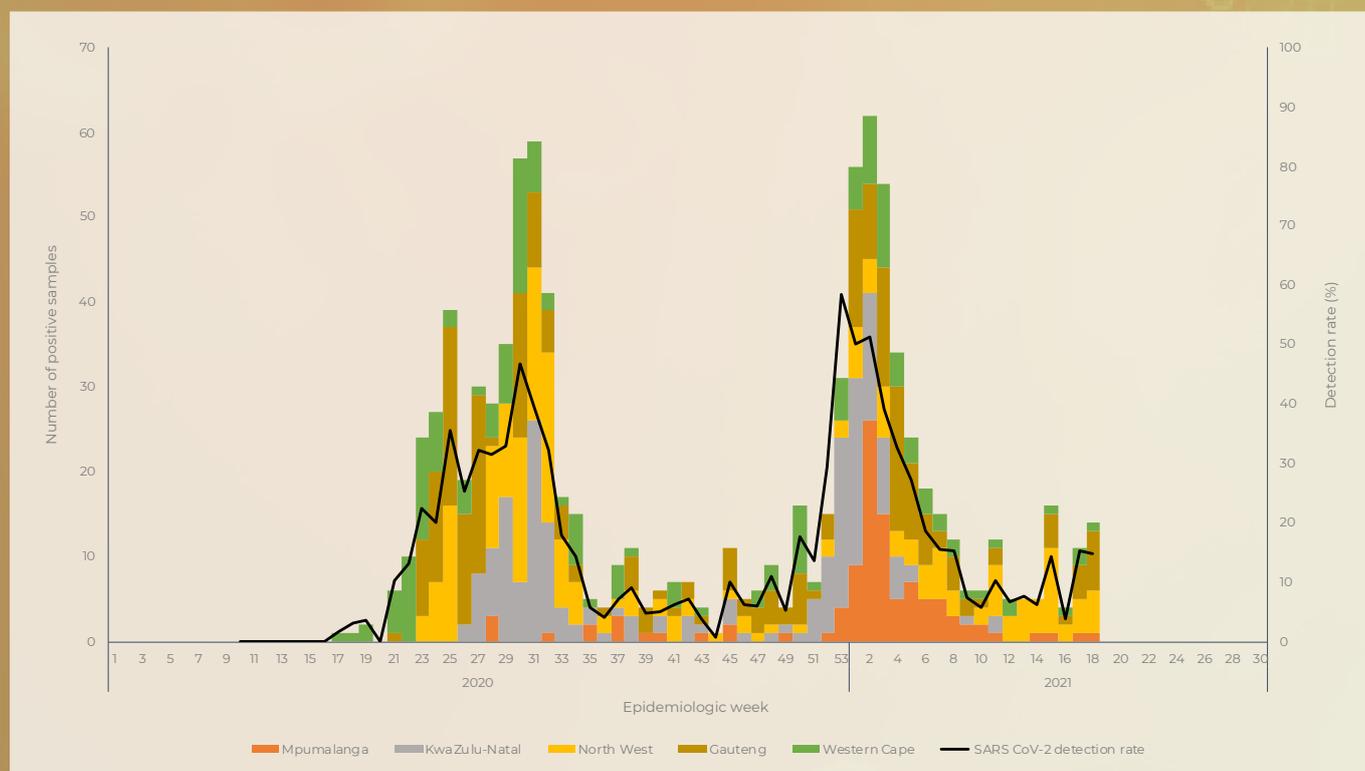


Figure 13. Number of samples testing positive for SARS-CoV-2** by province and detection rate by week

*Specimens from patients hospitalised with pneumonia at 7 sentinel sites in 5 provinces

**SARS-CoV-2 was detected in 19 of 132 (14%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet pneumonia (SRI) case definition. These are not included in the epidemiological curve.

Table 9. Cumulative number of identified SARS-CoV-2** and total number of samples tested by hospital

Hospital (Province)	SARS-CoV-2 positive	Total samples tested
Edendale (KZ)	197	933
Helen Joseph-Rahima Moosa (GP)	251	1 349
Klerksdorp-Tshepong (NW)	217	847
Mapulaneng-Matikwana (MP)	95	538
Red Cross (WC)	43	1 210
Mitchell's Plain (WC)	120	661
Tintswalo (MP)	9	60
Total:	932	5 598

GP: Gauteng; KZ: KwaZulu-Natal; NW: North West; MP: Mpumalanga (Tintswalo started enrolling on the 10th Feb 2021); WC: Western Cape

**SARS-CoV-2 was detected in 19 of 132 (14%) specimens from patients who met suspected SARS-CoV-2 case definition but did not meet pneumonia (SRI) case definition. These are not included in the table.

INFLUENZA, RESPIRATORY SYNCYTIAL VIRUS AND SARS-CoV-2 SURVEILLANCE REPORT

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SUMMARY OF LABORATORY CONFIRMED SARS-COV-2 CASES

Table 10. Characteristics of laboratory-confirmed cases of COVID-19, enrolled in influenza-like illness (ILI) and pneumonia surveillance programmes, South Africa, 02 March 2020 – 09 May 2021

Characteristic	Influenza-like illness (ILI), public-sector, n=307 (%)	Pneumonia, n=932 (%)
Age group		
0-9	33/307 (11)	68/932 (7)
10-19	22/307 (7)	7/932 (1)
20-39	137/307 (44)	165/932 (18)
40-59	92/307 (30)	347/932 (37)
60-79	22/307 (7)	316/932 (34)
≥80	1/307 (<1)	29/932 (3)
Sex-female	179/307 (58)	568/932 (61)
Province*		
Gauteng	N/A	251/932 (27)
KwaZulu-Natal	39/307 (13)	197/932 (21)
Mpumalanga**	26/307 (8)	104/932 (11)
North West	130/307 (42)	217/932 (23)
Western Cape	112/307 (37)	163/932 (18)
Race		
Black	213/307 (69)	776/928 (84)
Coloured	91/307 (30)	113/928 (12)
Asian/Indian	0/307 (0)	23/928 (2)
Other	3/307 (1)	16/928 (2)
Presentation		
Fever	297/307 (97)	520/928 (56)
Cough	305/307 (99)	896/928 (97)
Shortness of breath	96/307 (31)	746/928 (80)
Chest pain	127/307 (41)	399/928 (43)
Diarrhoea	28/307 (9)	62/928 (7)

INFLUENZA, RESPIRATORY SYNCYTIAL VIRUS AND SARS-CoV-2 SURVEILLANCE REPORT

WEEK 18 2021

REPORTING PERIOD 2 MARCH 2020 TO 9 MAY 2021

Characteristic	Influenza-like illness (ILI), public-sector, n=307 (%)	Pneumonia, n=932 (%)
Underlying conditions		
Hypertension	12/307 (4)	124/928 (13)
Cardiac	0/307 (0)	8/928 (1)
Lung disease	0/307 (0)	1/928 (<1)
Diabetes	6/307 (2)	197/928 (21)
Cancer	0/307 (0)	5/928 (1)
Tuberculosis	1/307 (<1)	27/928 (3)
HIV-infection	43/307 (14)	192/928 (21)
Other ***	8/307 (3)	80/928 (9)
Management		
Oxygen therapy	2/307 (1)	672/928 (72)
ICU admission	N/A	24/928 (2)
Ventilation	N/A	27/928 (3)
Outcome***		
Died	0/307 (0)	131/928 (14)

*ILI surveillance not conducted in Gauteng province

**Mpumalanga (ILI site started enrolling on the 10th November 2020 and an additional SARI site started enrolling on the 10th February 2021)

***Chronic lung, liver and kidney disease, organ transplant, pregnancy, malnutrition, obesity, tracheostomy, prematurity, seizure, stroke, anaemia, asplenia, burns, Systemic lupus erythematosus, seizures

****Outcome includes patients who are still hospitalised, have been discharged or referred, and those who died

Note: Children may be over-represented amongst hospitalised patients due to the inclusion of a large paediatric hospital in Cape Town.

Of the 131 patients who died, 14 were in the 20-39 year age group, 39 in the 40-59 year age group, and 78 were ≥60 years; 83/131 (63%) were female. All except six were known to have underlying medical conditions.