WEEKLY RESPIRATORY **PATHOGENS SURVEILLANCE** REPORT

SOUTH AFRICA WEEK 23 2021

NATIONAL INSTITUTE FOR **COMMUNICABLE DISEASES**

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CUMULATIVE DATA FROM



HIGHLIGHTS: WEEK 23

· RSV activity in both influenza-like illness (ILI) and pneumonia surveillance programmes has slightly increased in this current reporting week (week23) compared to previous week and RSV season has not started yet.

· Seven new cases of influenza -Gauteng (three), North West (two), Eastern Cape (one) and KwaZulu-Natal (one) were detected in week23 in addition to 24 cases reported in the previous weeks. To date, influenza cases have been detected from Gauteng, Western Cape, North West, Eastern Cape and KwaZulu-Natal sentinel surveillance sites. Influenza season has not started.

 From 2 March 2020 to 13 June 2021, a total of 1 468 COVID-19 cases were detected from all surveillance programmes. An increase in number of new positive case has been noted in both ILI and pneumonia surveillance programmes in this reporting week compared to previous week. Of the 1073 hospitalised COVID-19 cases reported with available data on outcome, 149 (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	ILI: An acute respiratory illness with a temperature (≥38°C) and cough, & onset ≤10 days 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: • paroxysms of coughing, • or inspiratory "whoop", • or post-tussive vomiting • or apnoea in children <1 year; OR Any person in whom a clinician suspects pertussis	ILI: An acute respiratory illness with a temperature (≥38°C) and cough, & onset ≤10 days	SRI: Acute (symptom onset≤10 days or chronic (symptom onset >10) lower respiratory tract infection 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: • paroxysms of coughing, • or inspiratory "whoop", • or post-tussive vomiting • or apnoea in children <1 year; OR Any person in whom a clinician suspects pertussis.
	Suspected SARS-CoV-2 Any person presenting with an acute (≤14 days) respiratory tract infection or other clinical illness compatible with COVID-19 ^β	Suspected SARS-CoV-2 Any person presenting with an acute (<14 days) respiratory tract infection or other clinical illness compatible with COVID-19 ^g	Suspected SARS-CoV-2 Any person admitted with a physician-diagnosis of suspected COVID-19 and not meeting SRI case definition.
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.

* 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 **P**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). Of the 31 influenza cases detected in surveillance sites in 2021, majority (17, 55%) were influenza B/Victoria.

ILI programme: In 2021 to date, specimens from 746 patients meeting ILI case definition were received from 4 ILI sites. Influenza was detected in five (0.4%) patients, of which three (60%) were influenza B(Victoria), one (20%) influenza B(lineage inconclusive) and one (20%) was influenza B(lineage pending results). (Figure 1 and Table 1).

Viral Watch programme: During the same period, specimens were received from 96 patients from Viral Watch sites in three of the 8 provinces participating in surveillance. Influenza was detected in seven (7.3%) patients, of which one (14%) was influenza B (Victoria), two (29%) influenza B (lineage inconclusive) and four (57%) were influenza B (lineage pending results). (Figure 5 and Table 4).

Pneumonia surveillance: Since the beginning of 2021, specimens from 2 342 patients with severe respiratory illness (SRI) were received from the 6 sentinel sites. Influenza was detected in 13 (0.6%) patients, of which one (8%) was influenza A(H3N2), eight (61%) influenza B (Victoria) and four (31%) were influenza B (pending lineage results). (Figure 9 and Table 7).

In addition, influenza was detected in six (1.4%) specimens, of which five were influenza B (Victoria) and one influenza B (lineage pending results) from 418 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, 746 specimens were tested and RSV was detected in specimens of 59 (8%) patients.

Viral Watch programme: During the same period, 96 specimens were tested and RSV was detected in specimens of six (6%) patients.

Pneumonia surveillance: Since the beginning of 2021, 2 342 specimens were tested and RSV was detected in specimens of 304 (13%) patients.

In addition, RSV was detected in 20 of 418 (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 2 057 patients were tested and SARS-CoV-2 was detected in 342 (17%) patients.

Viral Watch programme: From March 2020 to date, specimens were tested from 375 patients and SARS-CoV-2 was detected in 51 (14%) patients.

Pneumonia surveillance: From March 2020 to date, specimens from 6 320 patients with severe respiratory illness (SRI) were tested and SARS-CoV-2 was detected in 1 075 (17%) patients.

In addition, SARS-CoV-2 was detected in 87 of 610 (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

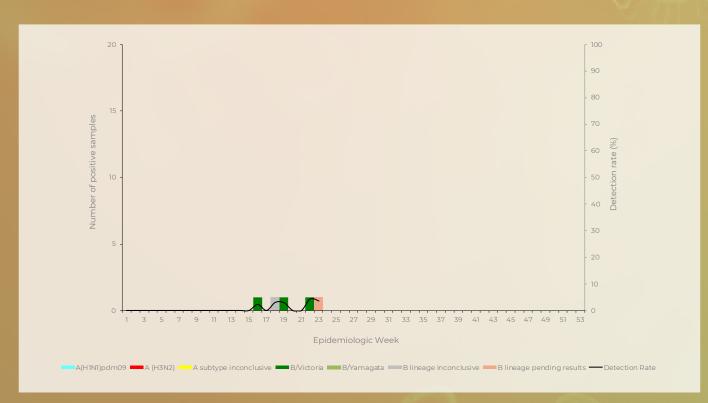


Figure 1. Number of positive samples* by influenza subtype and lineage** and detection rate*** by week

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

**Influenza was detected from five of 339 (1.5%), of which four were influenza B(Victoria) and one influenza B(lineage pending results) 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.

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

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

B lineage pending results: means influenza B results for lineage are pending

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	B lineage pending results***	Total samples
Agincourt (MP)	0	0	0	0	0	0	0	112
Eastridge (WC)	Ο	О	0	0	О	Ο	Ο	134
Edendale Gateway (KZ)	О	О	0	2	0		0	90
Jouberton (NW)	0	О	О		0	0		322
Mitchell's Plain (WC)	0	О	0	0	0	0	0	88
Total:	0	0	0	3	0	1		746

KZ: KwaZulu-Natal; NW: North West; WC: Western Cape; MP: Mpumalanga Inconclusive: insufficient viral load in sample and unable to characterise further

Influenza was detected from five of 339 (1.5%), of which four were influenza B(Victoria) and one influenza B(lineage pending results) 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. *influenza B lineage results are pending

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

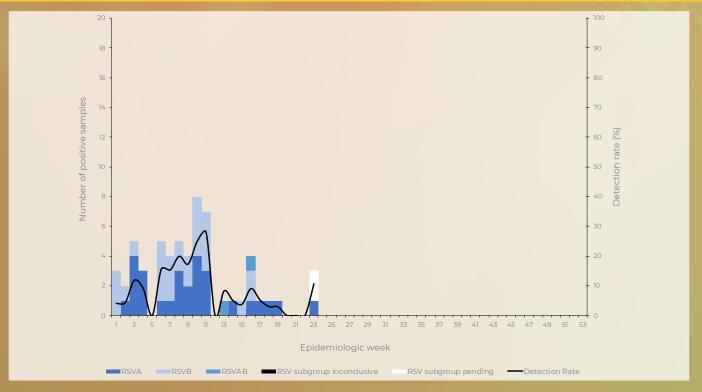


Figure 2. Number of samples testing positive for respiratory syncytial virus** by subgroup and detection rate by week

Clinic (Province)	RSVA	RSVB	RSVAB	RSV subgroup inconclusive	RSV subgroup pending*	Total samples
Agincourt (MP)	11	7		0	Ο	112
Eastridge (WC)	12	0		О	2	134
Edendale Gateway (KZ)		5	0	Ο	Ο	90
Jouberton (NW)	2	15	0	О	Ο	322
Mitchell's Plain (WC)	2	0	0	0	Ο	88
Total	28	27	2	0	2	746

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

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 15 of 339 (4%) 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

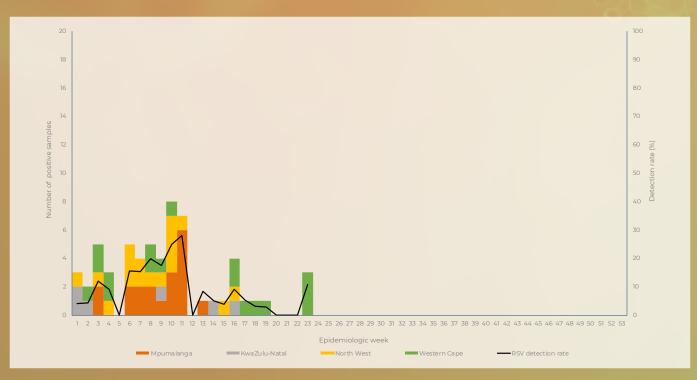


Figure 3. Number of samples testing positive for respiratory syncytial virus* by province and detection rate by week

*RSV was detected from 15 of 339 (4%) 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

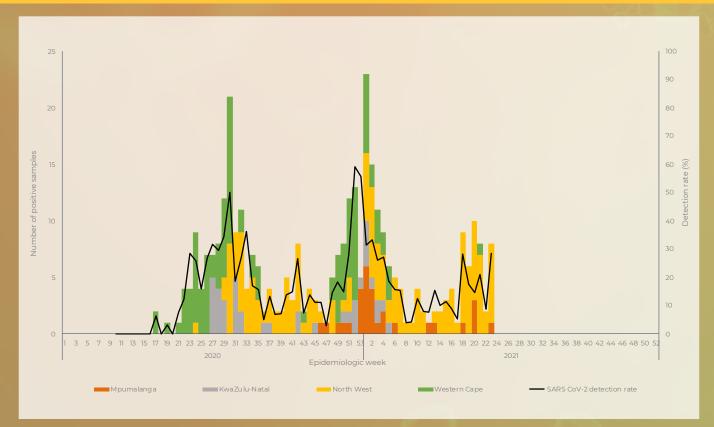


Figure 4. Number of samples testing positive for SARS-CoV-2*^β by province and detection rate by week

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

#SARS-CoV-2 was detected in 66 of 469 (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 n	umber of samples tested b	y clinic and province
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Clinic (Province)	SARS-CoV-2 positive	Total samples tested
Agincourt (MP)	30	142
Eastridge (WC)	47	622
Edendale Gateway (KZ)	39	231
Jouberton (NW)	160	645
Mitchell's Plain (WC)	66	417
Total:	342	2 057

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

**SARS-CoV-2 was detected in 66 of 469 (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

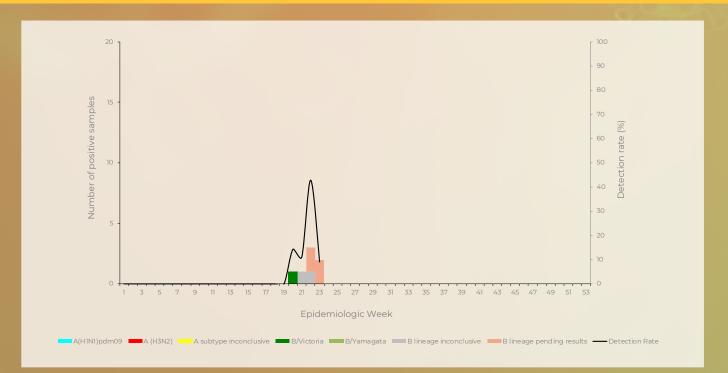


Figure 5. Number of positive samples* by influenza subtype and lineage and detection rate** by week

*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

Province	A(H1N1) pdm09	A(H3N2)	A subtype inconclusive	B/ Victoria	B/ Yamagata	B lineage inconclusive	B lineage pending results*	Total samples
Eastern Cape	0	0	0	0	О	0		
Free State	0	0	Ο	0	О	О	0	Ο
Gauteng	0	0	Ο		О	2	3	80
Limpopo	0	0	Ο	0	О	О	0	0
Mpumalanga	0	0	0	0	О	О	0	
North West	0	0	Ο	0	О	О	0	2
Northern Cape	0	0	Ο	0	О	О	0	0
Western Cape	0	0	Ο	0	0	О	0	12
Total:	0	0	ο	1	0	2	4	96

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

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

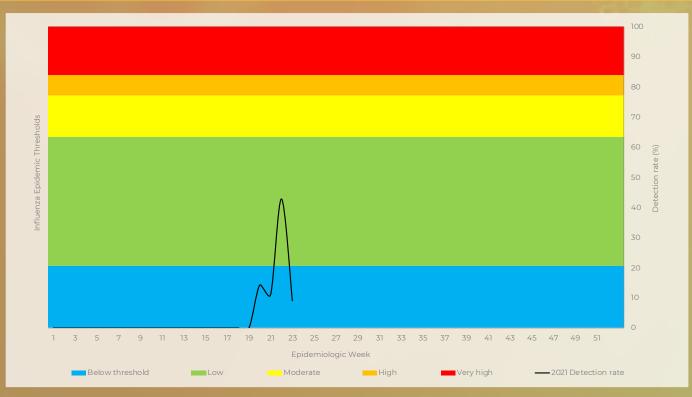


Figure 6. ILI surveillance (Viral Watch) percentage influenza detections and epidemic thresholds*

*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	
Free State	0	0
Gauteng	4	80
Limpopo	0	0
Mpumalanga	0	
North West	0	2
Northern Cape	0	0
Western Cape	2	12
Total:	6	96

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

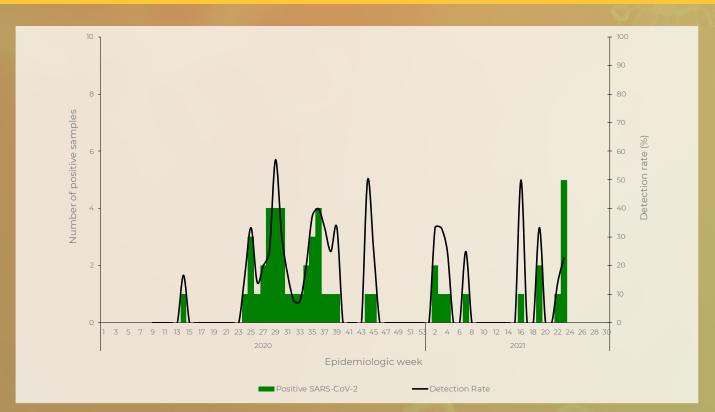


Figure 8. Number of samples testing positive for SARS-CoV-2*, and detection rate by week

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

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		5
Free State		14
Gauteng	38	240
Limpopo	0	2
Mpumalanga		6
North West	Ο	2
Northern Cape	Ο	2
Western Cape	10	104
Total:	51	375

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NATIONAL SYNDROMIC SURVEILLANCE FOR PNEUMONIA

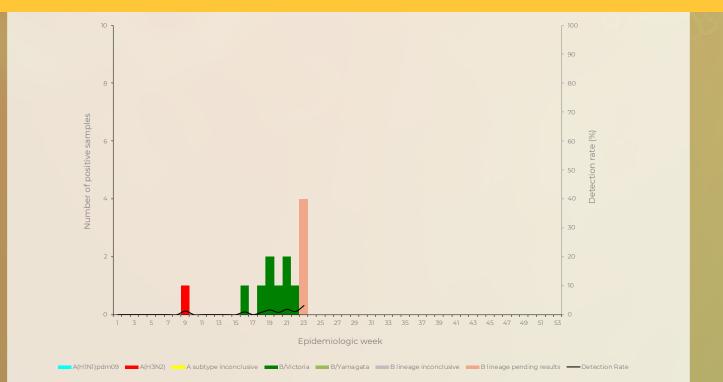


Figure 9. Number of positive samples* by influenza subtype and lineage** and detection rate*** by week

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

**Influenza B(Victoria) was detected from one of 79 (1.3%) 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 furthe

B lineage pending results: means influenza B results for lineage are pending

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	B lineage pending results***	Total samples
Edendale (KZ)	0	0	0	3	О	0	1	312
Helen Joseph-Rahima Moosa (GP)	0	0	Ο	5	0	Ο	2	660
Klerksdorp-Tshepong (NW)	0	0	Ο	0	0	Ο		362
Mapulaneng- Matikwana (MP)	0	0	Ο	0	0	Ο	0	293
Red Cross (WC)	0	0	0	0	Ο	0	0	347
Mitchell's Plain (WC)	0		0	0	0	0	0	277
Tintswalo (MP)	0	О	0	0	0	0	0	91
Total:	0	1	0	8	0	0	4	2 342

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 79 (1.3%) 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 B lineage results are pending

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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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NATIONAL SYNDROMIC SURVEILLANCE FOR PNEUMONIA

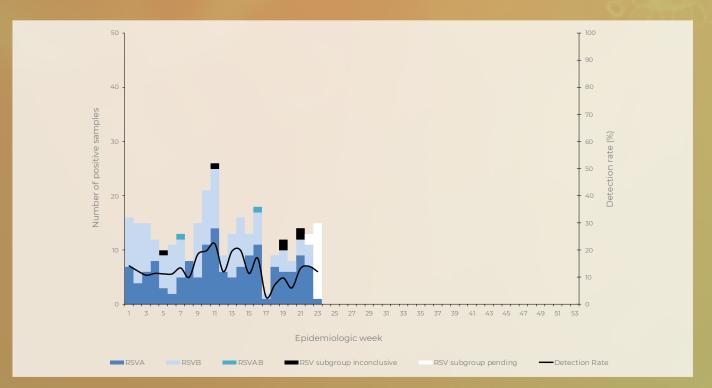


Figure 11. Number of samples testing positive for respiratory syncytial virus* by subgroup and detection rate by week

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)	5	25	0	0	Ο	312
Helen Joseph-Rahima Moosa (GP)	34	40	0	Ο		660
Klerksdorp-Tshepong (NW)	8	40	О	2		362
Mapulaneng-Matikwana (MP)	20	7		Ο	О	293
Red Cross (WC)	54	14	0	3	7	347
Mitchell's Plain (WC)	17	3			7	277
Tintswalo (MP)	10	3	0	О	О	91
Total:	148	132	2	6	16	2 342

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 78 (6.4%) 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

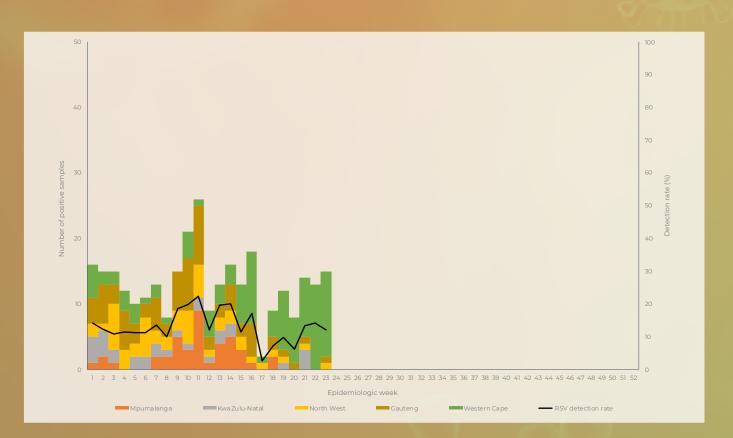


Figure 12. Number of samples testing positive for respiratory syncytial virus* by province and detection rate by week

*RSV was detected in five of 79 (6%) 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

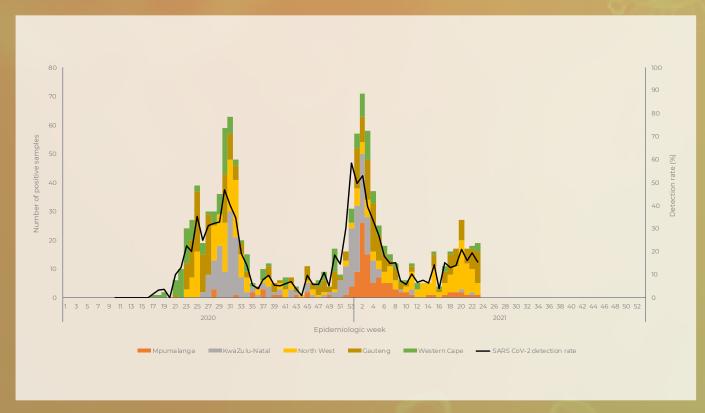


Figure 13. Number oof samples testing positive for SARS-CoV-2*^{\$} by province and detection rate by week

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

*#SARS-CoV-2 was detected in 21 of 141 (15%) 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)	242	1 133
Helen Joseph-Rahima Moosa (GP)	287	1 499
Klerksdorp-Tshepong (NW)	267	955
Mapulaneng-Matikwana (MP)	99	595
Red Cross (WC)	43	1 303
Mitchell's Plain (WC)	124	744
Tintswalo (MP)	13	91
Total:	1 075	6 320

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 21 of 141 (15%) 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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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

Characteristic	Influenza–like illness (ILI), public-sector, n=342 (%)	Pneumonia, n=1 075 (%)
Age group		
0-9	35/342 (10)	71/1075 (7)
10-19	25/342 (8)	7/1075 (1)
20-39	145/342 (42)	183/1075 (17)
40-59	107/342 (31)	394/1075 (37)
60-79	28/342 (8)	384/1075 (35)
≥80	2/342 (1)	36/1075 (3)
Sex-female	199/342 (58)	661/1075 (61)
Province*		
Gauteng	N/A	287/1075 (27)
KwaZulu-Natal	39/342 (11)	242/1075 (23)
Mpumalanga**	30/342 (9)	112/1075 (10)
North West	160/342 (47)	267/1075 (25)
Western Cape	113/342 (33)	167/1075 (15)
Race		
Black	2341342 (70)	899/1073 (84)
Coloured	93/342 (28)	122/1073 (11)
Asian/Indian	1/342 (<1)	32/1073 (3)
Other	7/342 (1)	20/1073 (2)
Presentation		
Fever	331/342 (97)	574/1073 (53)
Cough	339/342 (99)	1037/1073 (97)
Shortness of breath	111/342 (32)	855/1073 (80)
Chest pain	144/342 (42)	449/1073 (42)
Diarrhoea	34/342 (10)	69/1073 (6)

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Characteristic	Influenza–like illness (ILI), public-sector, n=342 (%)	Pneumonia, n=1 075 (%)
Underlying conditions		
Hypertension	12/342 (4)	124/1073 (12)
Cardiac	0/342 (0)	8/1073 (1)
Lung disease	0/342 (0)	1/1073 (<1)
Diabetes	7/342 (2)	224/1073 (21)
Cancer	0/342 (0)	7/1073 (1)
Tuberculosis	2/342 (1)	29/1073 (3)
HIV-infection	50/342 (15)	220/1073 (21)
Other ***	8/342 (2)	82/1073 (8)
Management		
Oxygen therapy	2/342 (1)	780/1073 (73)
ICU admission	N/A	26/1073 (2)
Ventilation	N/A	30/1073 (3)
Outcome***		
Died	0/342 (0)	149/1073 (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 149 patients who died, one was in <20 age group, 15 in the 20-39 year age group, 43 in the 40-59 year age group, and 90 were ≥60 years; 96/149 (64%) were female. All except six were known to have underlying medical conditions.

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