WEEKLY RESPIRATORY PATHOGENS SURVEILLANCE **REPORT**



SOUTH AFRICA WEEK 31 2021

CONTENTS

description Comments Systematic Influenza-like illness (ILI) surveillance Influenza Respiratory syncytial virus SARS-CoV-2 Influenza-like illness (ILI) Viral Watch Influenza SARS-CoV-2 National syndromic surveilance for pneumonia Influenza Respiratory syncytial virus

CUMULATIVE DATA FROM



SARS-CoV-2

Summary of laboratory

confirmed SARS-CoV-2 cases



HIGHLIGHTS: WEEK 31

- · RSV activity remains below seasonal threshold in both influenza-like illness (ILI) and pneumonia surveillance programmes.
- · One new case of influenza from Western Cape was detected in week 31. To date, 60 influenza cases have been detected from Gauteng, Western Cape, North West, Eastern Cape, Mpumalanga and KwaZulu-Natal sentinel surveillance sites. The influenza season has not started.
- · From 2 March 2020 to 8 August 2021, a total of 2 370 COVID-19 cases were detected from all surveillance programmes. A decline in detection rate has been noted in both pneumonia surveillance and ILI programme in this reporting week (week31). Of the 1 437 hospitalised COVID-19 cases reported with available data on outcome, 233 (16%) 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 | 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 | 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 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 ^β | 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 transmission in the community and thresholds from pneumonia surveillance are used as an indicator of impact of disease.

\$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, myalqia, or diarrhoea)

^{*} 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

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COMMENTS

Influenza

The influenza 2021 season has not started. Since the first influenza positive case of 2021 was detected in pneumonia surveillance in week 9 of 2021 (week ending on the 07 March 2021), sporadic cases have been reported from week 16 to date. Of the 60 influenza cases detected in surveillance sites in 2021, the majority (48, 80%) were influenza B/Victoria.

ILI programme: In 2021 to date, specimens from 1091 patients meeting ILI case definition were received from 4 ILI sites. Influenza was detected in eight (1%) patients, of which six (75%) were influenza B(Victoria) and two (25%) were influenza B (lineage inconclusive). (Figure 1 and Table 1).

Viral Watch programme: In 2021 to date, specimens were received from 157 patients from Viral Watch sites in five of the 8 provinces participating in surveillance. Influenza was detected in nine (6%) patients, of which four (44%) were influenza B (Victoria), four (44%) influenza B (lineage inconclusive) and one (11%) was influenza B (pending lineage results). (Figure 5 and Table 4).

Pneumonia surveillance: Since the beginning of 2021, specimens from 3 695 patients with severe respiratory illness (SRI) were received from the 6 sentinel sites. Influenza was detected in 32 (0.9%) patients, of which one (3%) was influenza A(H3N2), 27 (84%) influenza B (Victoria) and four (13%) were influenza B (pending lineage results). (Figure 9 and Table 7).

In addition, influenza was detected in 11 (2%) specimens, all were influenza B (Victoria) from 586 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, 1091 specimens were tested and RSV was detected in specimens of 72 (7%) patients.

Viral Watch programme: In 2021 to date, 157 specimens were tested and RSV was detected in specimens of six (4%) patients.

Pneumonia surveillance: Since the beginning of 2021, 3 695 specimens were tested and RSV was detected in specimens of 384 (10%) patients.

In addition, RSV was detected in 21 of 586 (4%) 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 of 2020 (week starting 2 March 2020).

ILI programme: From March 2020 to date, specimens from 2 394 patients were tested and SARS-CoV-2 was detected in 470 (20%) patients.

Viral Watch programme: From March 2020 to date, specimens were tested from 436 patients and SARS-CoV-2 was detected in 80 (18%) patients.

Pneumonia surveillance: From March 2020 to date, specimens from 7 711 patients with severe respiratory illness (SRI) were tested and SARS-CoV-2 was detected in 1 670 (22%) patients.

In addition, SARS-CoV-2 was detected in 150 of 789 (19%) 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

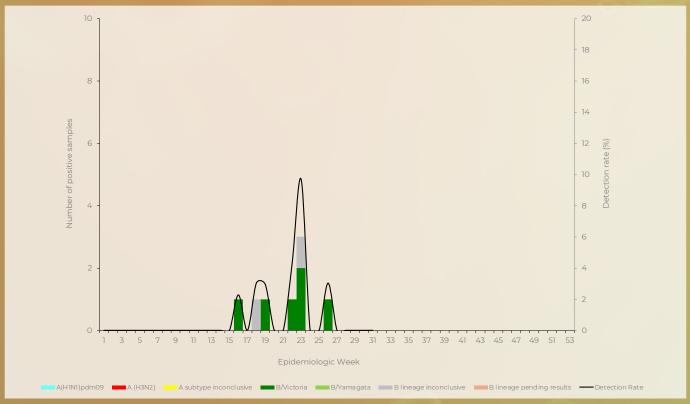


Figure 1. Number of positive samples* by influenza subtype and lineage** and detection rate*** by week

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 | О | 0 | О | О | 0 | 156 |
| Eastridge (WC) | 0 | 0 | 0 | 0 | О | О | 0 | 169 |
| Edendale Gateway (KZ) | 0 | 0 | О | 3 | О | 2 | 0 | 123 |
| Jouberton (NW) | 0 | 0 | О | 3 | 0 | Ο | 0 | 526 |
| Mitchell's Plain (WC) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 117 |
| Total: | 0 | 0 | 0 | 6 | 0 | 2 | 0 | 1091 |

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 10 of 475 (2%), all were influenza B(Victoria) 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

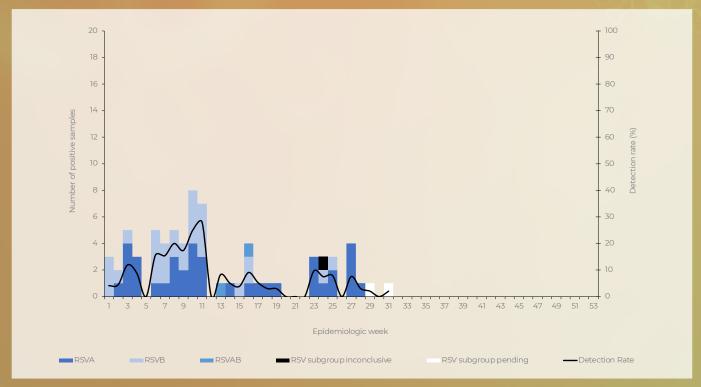


Figure 2. Number of samples testing positive for respiratory syncytial virus** by subgroup and detection rate by week

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 | | 0 | 0 | 156 |
| Eastridge (WC) | 22 | 0 | | 0 | | 169 |
| Edendale Gateway (KZ) | | 6 | 0 | 0 | 0 | 123 |
| Jouberton (NW) | 2 | 16 | 0 | | | 526 |
| Mitchell's Plain (WC) | 2 | 0 | 0 | 0 | 0 | 117 |
| Total | 38 | 29 | 2 | 1 | 2 | 1091 |

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 475 (3%) 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

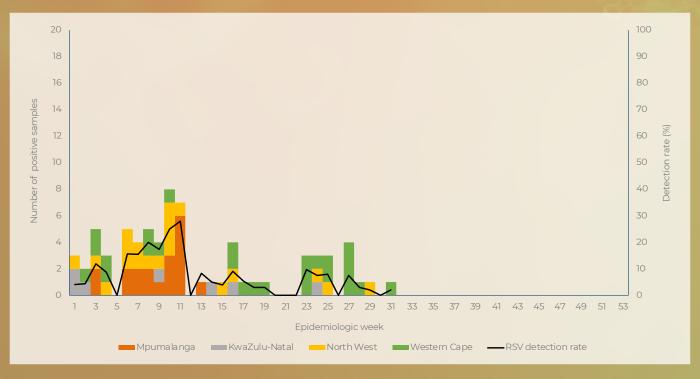


Figure 3. Number of samples testing positive for respiratory syncytial virus* by province and detection rate by week

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

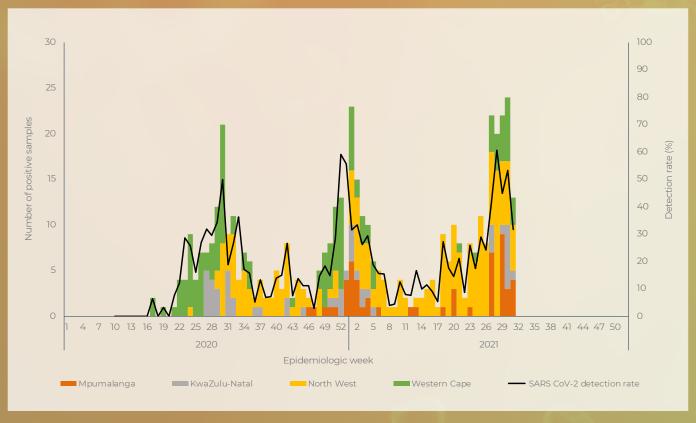


Figure 4. Number of samples testing positive for SARS-CoV-2*\$ by province and detection rate by week

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) | 53 | 183 |
| Eastridge (WC) | 54 | 671 |
| Edendale Gateway (KZ) | 51 | 265 |
| Jouberton (NW) | 229 | 829 |
| Mitchell's Plain (WC) | 83 | 446 |
| Total: | 470 | 2 394 |

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

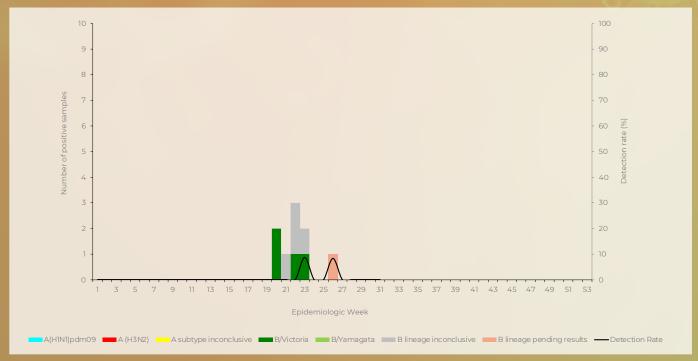


Figure 5. Number of positive samples* by influenza subtype and lineage and detection rate** by week

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 | B lineage pending results* | Total samples |
|---------------|------------------|---------|---------------------------|----------------|----------------|---------------------------|----------------------------------|------------------|
| Eastern Cape | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Free State | 0 | 0 | О | 0 | 0 | 0 | 0 | 0 |
| Gauteng | 0 | О | О | 3 | 0 | 4 | | 136 |
| Limpopo | 0 | О | О | О | 0 | О | 0 | 0 |
| Mpumalanga | 0 | О | 0 | 0 | 0 | О | 0 | 2 |
| North West | 0 | О | 0 | О | 0 | О | 0 | 2 |
| Northern Cape | 0 | О | 0 | О | 0 | О | 0 | 0 |
| Western Cape | 0 | 0 | 0 | О | 0 | 0 | О | 16 |
| Total: | 0 | 0 | 0 | 4 | 0 | 4 | | 157 |

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

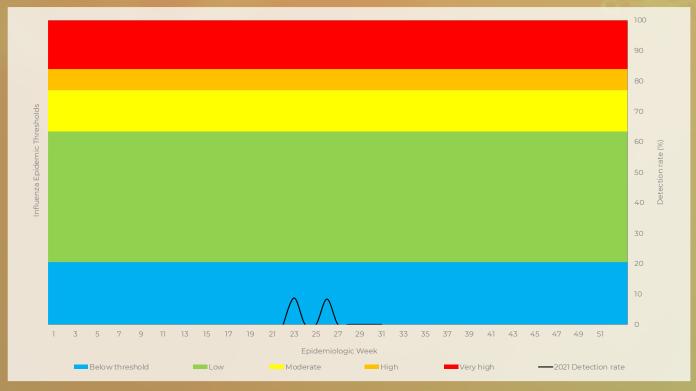


Figure 6. ILI surveillance (Viral Watch) percentage influenza detections and epidemic thresholds*

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

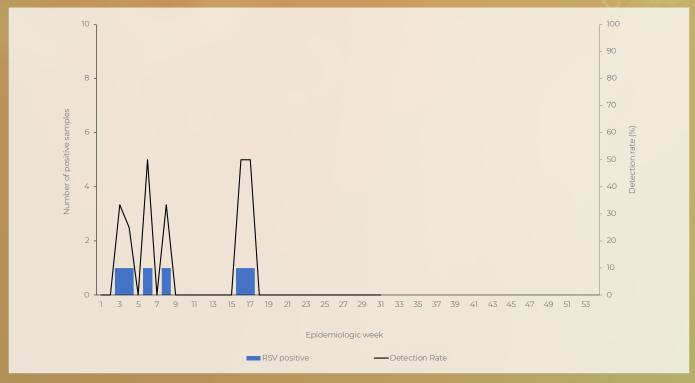


Figure 7. Number of samples testing positive for RSV*, and detection rate by week

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 | 136 |
| Limpopo | 0 | 0 |
| Mpumalanga | 0 | 2 |
| North West | 0 | 2 |
| Northern Cape | 0 | 0 |
| Western Cape | 2 | 16 |
| Total: | 6 | 157 |

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INFLUENZA-LIKE ILLNESS (ILI) SURVEILLANCE VIRAL WATCH

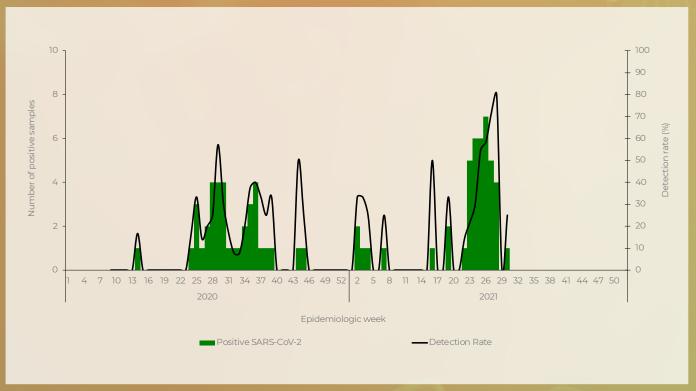


Figure 8. Number of samples testing positive for SARS-CoV-2*, and detection rate by week

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 | 65 | 296 |
| Limpopo | 0 | 2 |
| Mpumalanga | | 7 |
| North West | 0 | 2 |
| Northern Cape | 0 | 2 |
| Western Cape | 12 | 108 |
| Total: | 80 | 436 |

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NATIONAL SYNDROMIC SURVEILLANCE FOR PNEUMONIA

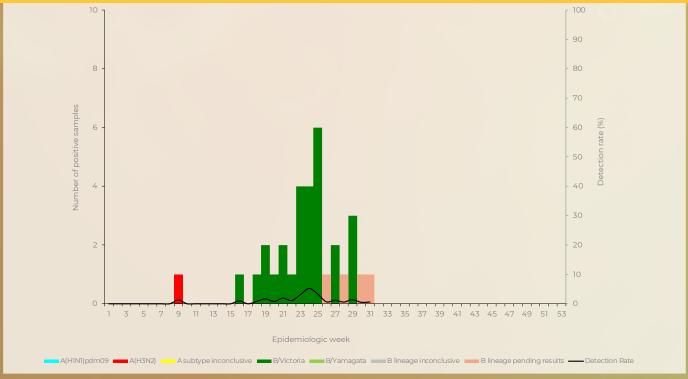


Figure 9. Number of positive samples* by influenza subtype and lineage** and detection rate*** by week

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 | 8 | 0 | 0 | 0 | 533 |
| Helen Joseph-Rahima Moosa (GP) | 0 | 0 | О | 12 | 0 | 0 | | 983 |
| Klerksdorp-Tshepong (NW) | 0 | 0 | О | 3 | 0 | 0 | | 622 |
| Mapulaneng- Matikwana (MP) | 0 | 0 | О | | 0 | 0 | 0 | 395 |
| Red Cross (WC) | 0 | О | 0 | 3 | 0 | 0 | | 480 |
| Mitchell's Plain (WC) | 0 | | 0 | 0 | 0 | 0 | 0 | 530 |
| Tintswalo (MP) | 0 | О | 0 | О | 0 | 0 | 1 | 152 |
| Total: | 0 | 1 | 0 | 27 | 0 | 0 | 4 | 3 695 |

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 111 (1%) 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*

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NATIONAL SYNDROMIC SURVEILLANCE FOR PNEUMONIA

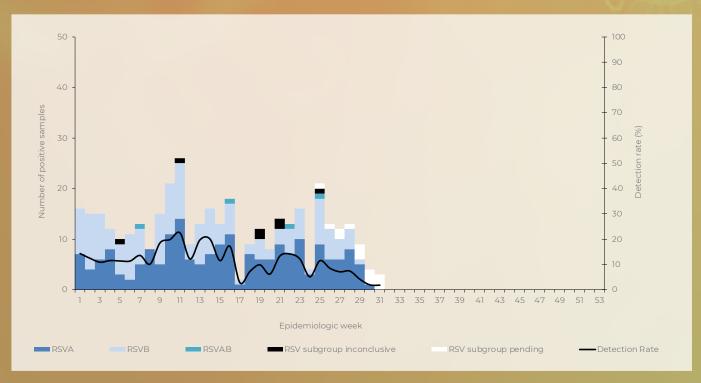


Figure 11. Number of samples testing positive for respiratory syncytial virus* by subgroup and detection rate by week

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 | 29 | 0 | 0 | 0 | 533 |
| Helen Joseph-Rahima Moosa (GP) | 36 | 42 | 0 | 0 | | 983 |
| Klerksdorp-Tshepong (NW) | 8 | 44 | 0 | 2 | 0 | 622 |
| Mapulaneng-Matikwana (MP) | 20 | 7 | | 0 | 0 | 395 |
| Red Cross (WC) | 80 | 29 | 2 | 4 | 13 | 480 |
| Mitchell's Plain (WC) | 36 | 10 | | | 0 | 530 |
| Tintswalo (MP) | 10 | 3 | 0 | 0 | 0 | 152 |
| Total: | 195 | 164 | 4 | 7 | 14 | 3 695 |

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 six of 111 (5%) 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

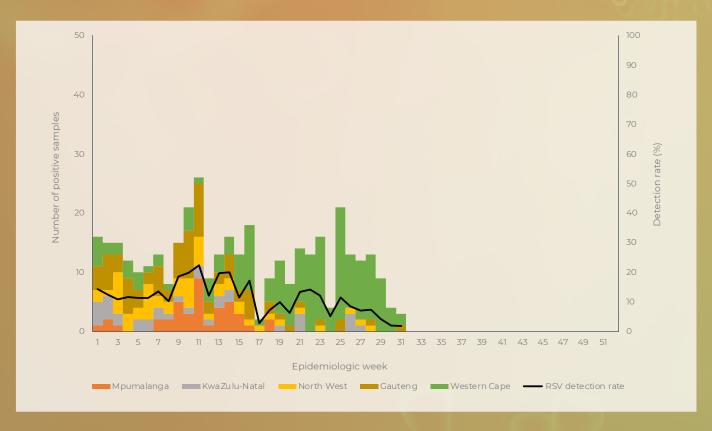


Figure 12. Number of samples testing positive for respiratory syncytial virus* by province and detection rate by week

*RSV was detected in six of 111 (5%) 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

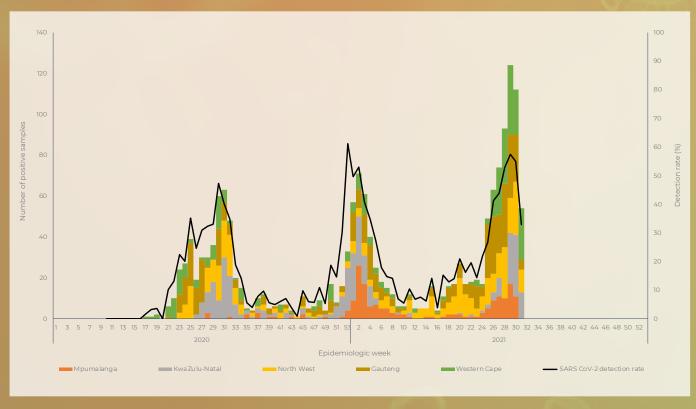


Figure 13. Number oof samples testing positive for SARS-CoV-2* by province and detection rate by week

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) | 330 | 1 363 |
| Helen Joseph-Rahima Moosa (GP) | 456 | 1 836 |
| Klerksdorp-Tshepong (NW) | 388 | 1 222 |
| Mapulaneng-Matikwana (MP) | 141 | 700 |
| Red Cross (WC) | 52 | 1 436 |
| Mitchell's Plain (WC) | 263 | 1001 |
| Tintswalo (MP) | 40 | 153 |
| Total: | 1 670 | 7 711 |

**SARS-CoV-2 was detected in 28 of 182 (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 pneumonia surveillance programmes, South Africa, 02 March 2020 – 08 August 2021

| Characteristic | Influenza-like illness (ILI), public-sector, n=592 (%) | Pneumonia, n=1 698 (%) |
|---------------------|---|------------------------|
| Age group | | |
| 0-9 | 46/592 (8) | 110/1698 (6) |
| 10-19 | 39/592 (7) | 11/1698 (1) |
| 20-39 | 271/592 (46) | 285/1698 (17) |
| 40-59 | 190/592 (32) | 639/1698 (37) |
| 60-79 | 44/592 (7) | 587/1698 (35) |
| ≥80 | 2/592 (<1) | 66/1698 (4) |
| Sex-female | 359/592 (61) | 1026/1698 (60) |
| Province* | | |
| Gauteng | N/A | 457/1698 (27) |
| KwaZulu-Natal | 85/592 (14) | 334/698 (20) |
| Mpumalanga** | 72/592 (12) | 204/1698 (12) |
| North West | 294/592 (50) | 388/1698 (23) |
| Western Cape | 141/592 (24) | 315/1698 (18) |
| Race | | |
| Black | 426/577 (74) | 1315/1652 (80) |
| Coloured | 125/577 (22) | 244/14652 (14) |
| Asian/Indian | 4/577 (<1) | 44/1652 (3) |
| White | 19/577 (3) | 31/1652 (2) |
| Other | 3/577 (<1) | 18/1652 (1) |
| Presentation | | |
| Fever | 464/577 (80) | 807/1652 (49) |
| Cough | 560/577 (97) | 1584/1652 (96) |
| Shortness of breath | 198/577 (34) | 1302/1652 (79) |
| Chest pain | 236/577 (41) | 665/1652 (40) |
| Diarrhoea | 47/577 (8) | 99/1652 (6) |

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| Characteristic | Influenza-like illness (ILI), public-sector, n=592 (%) | Pneumonia, n=1 698 (%) |
|-----------------------|---|------------------------|
| Underlying conditions | | |
| Hypertension | 17/577 (3) | 248/1652 (17) |
| Cardiac | 2/577 (<1) | 42/1652 (3) |
| Lung disease | 0/577 (0) | 2/1652 (<1) |
| Diabetes | 14/577 (2) | 339/1652 (21) |
| Cancer | 1/577 (<1) | 10/1652 (1) |
| Tuberculosis | 8/577 (1) | 39/1652 (2) |
| HIV-infection | 100/577 (17) | 342/1652 (21) |
| Other *** | 12/577 (2) | 90/1652 (5) |
| Management | | |
| Oxygen therapy | 2/577 (1) | 1 157/1652 (70) |
| ICU admission | N/A | 36/1652 (2) |
| Ventilation | N/A | 43/1652 (3) |
| Outcome*** | | |
| Died | 0/560 (0) | 233/1437 (16) |

