

SOUTH AFRICA WEEK 5 2022

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HIGHLIGHTS: WEEK 5

- Total COVID-19 and respiratory admissions increased since the start of the fourth COVID-19 wave from week 45 of 2021, peaking in week 49 of 2021. However recently the numbers have been decreasing in all groups and provinces to below threshold. The proportion of admissions coded as confirmed COVID-19 (among the suspected cases) peaked in the fourth wave in weeks 49 to 52 of 2021 at 95%. It has since decreased to 71%.
- Total COVID-19 and respiratory outpatient (general practitioner) consultations peaked in week 49 of 2021 in the fourth COVID-19 wave. Recently the number of consultations has been rising slightly in most age groups (0-49 years) and in Gauteng but remaining below threshold. The proportion of general practitioner consultations coded as confirmed COVID-19 (among the suspected cases) peaked in week 2 of 2022 at 42% in the fourth wave and has remained at similar levels in recent weeks, even though absolute numbers have been decreasing.
- Total COVID-19 and respiratory emergency department consultations peaked in weeks 49 of 2021 in the fourth COVID-19 wave. In the past few weeks, numbers have been slightly increasing in age groups 0-19 years and all provinces except for Gauteng. However, these numbers are still below threshold. The proportion of general practitioner consultations coded as confirmed COVID-19 (among the suspected cases) peaked in weeks 50 and 51 of 2021 at 99% for the fourth wave. The current proportion remains high at 95.1%.



WEEK 5 2022

PROGRAMME DESCRIPTIONS

Inpatient data from a large national private hospital group and outpatient data from a general practitioner network linked to the same hospital group were received for the last week. Data were obtained from eight provinces (Eastern Cape, Free State, Gauteng, Limpopo, KwaZulu-Natal, Mpumalanga, North West, Western Cape). Sufficient numbers for province-level reporting were available for four of these (bold). Consultations and admissions were coded based on discharge diagnosis using the International Classification of Diseases and Related Health Problems, 10th revision (ICD-10). Data were analysed using the indicator: All respiratory and confirmed or suspected COVID-19 (J00-J99 & U07.1 & U07.2)/Total consultations. Data on the indicator Pneumonia and Influenza (J10-J18)/Total consultations are available on request but were not included in this report.

Data were categorised in the following age groups: All ages, <5 years, 5-19 years, 20-49 years, ≥50 years

Epidemic Threshold

Thresholds were 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 historical data (2015-2019 for inpatients, 2016-2019 for outpatients) to calculate thresholds of activity, defined as follows:

- · Epidemic threshold: Median of weekly values for all baseline years
- · Low activity: Between epidemic threshold including 40th percentile
- · Moderate activity: Between 40th and 90th percentile
- · High activity: Between 90th and 97.5th percentile
- · Very high activity: 97.5th percentile and above

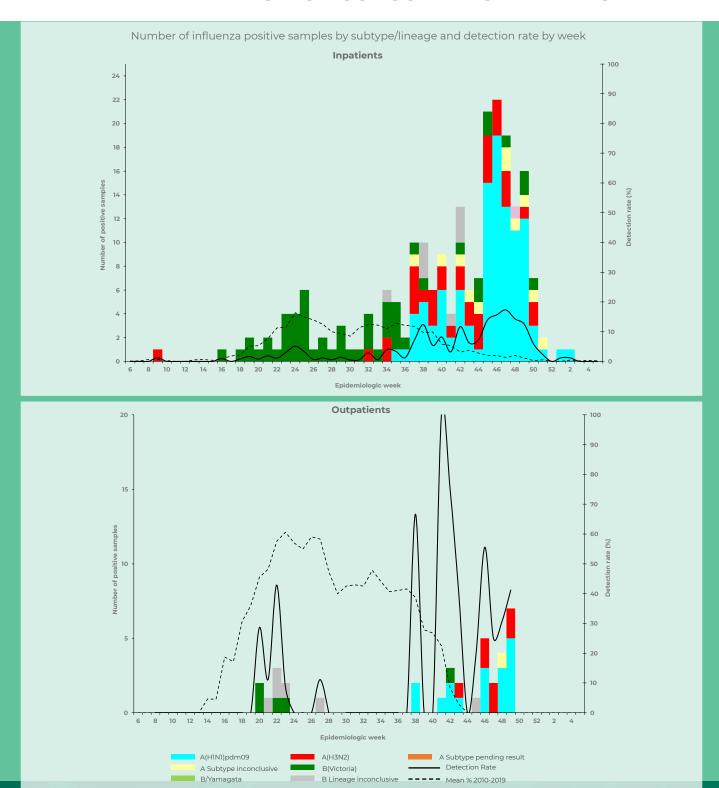
Hospitalization data for recent weeks are adjusted for delayed reporting (diagnosis codes assigned on discharge delayed for prolonged hospitalisations). Adjustment accounts for the probability of being admitted, but not yet discharged at the time of data drawdown using the age- and syndrome-specific probability distribution of duration of admission obtained from all hospitalizations that occurred during 2015-2019 and applied to weeks reported.

Limitations

Thresholds are established based on the proportion of respiratory consultations. If the numbers of non-respiratory consultations drop substantially because of changes in health-seeking behaviour, this could lead to elevated respiratory proportions. Delays in the coding of consultations may lead to changes in data from previous weeks. Differences by province and age group should be interpreted with caution due to low numbers in some groups.

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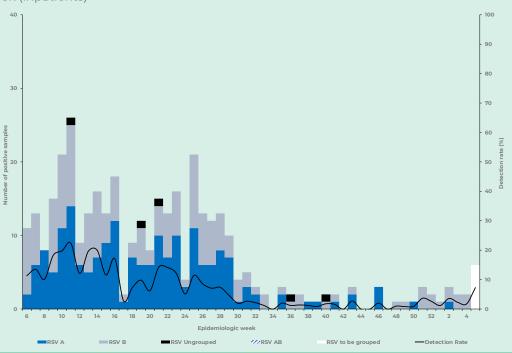
DATA FROM VIROLOGIC SURVEILLANCE PROGRAMMES TO AID IN INTERPRETATION OF CONSULTATION TRENDS

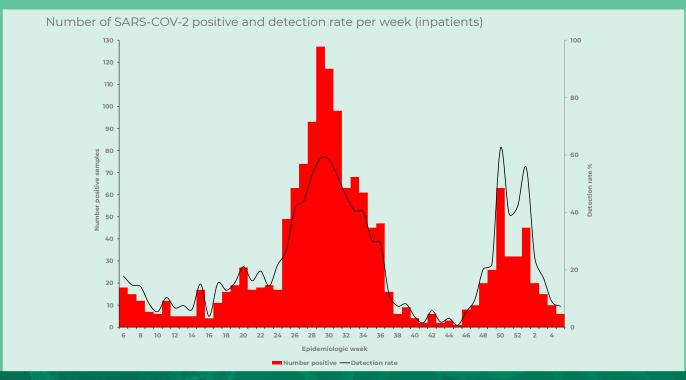


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DATA FROM VIROLOGIC SURVEILLANCE PROGRAMMES TO AID IN INTERPRETATION OF CONSULTATION TRENDS

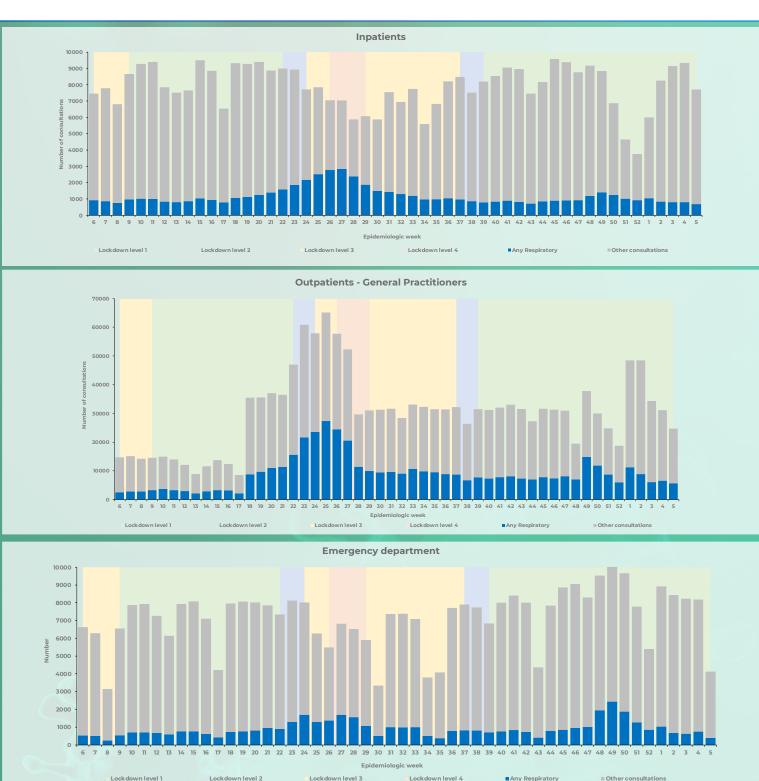
Number of respiratory syncytial virus positive by groups and subgroups per week (inpatients) and detection rate per week (inpatients)





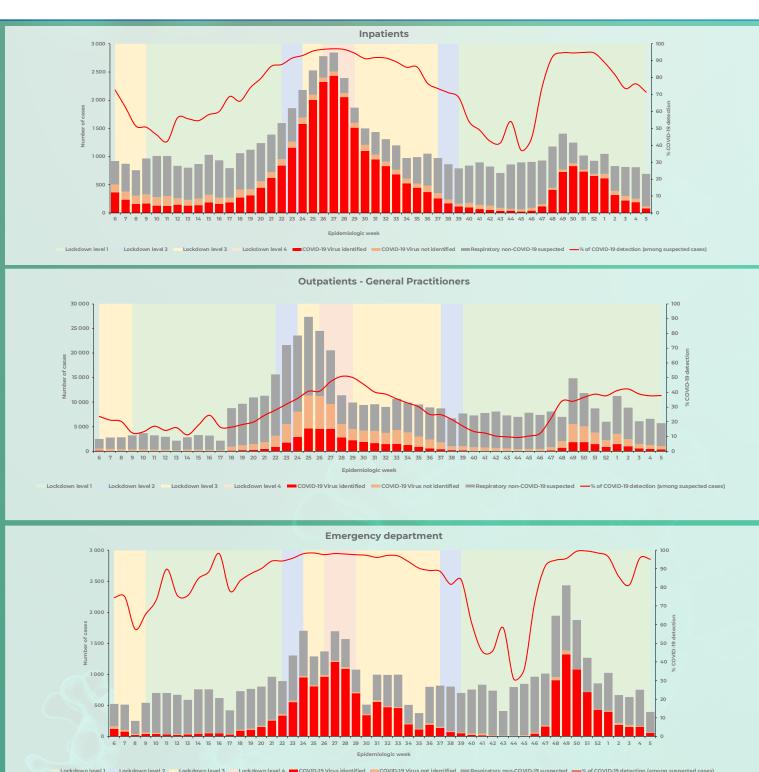
WEEK **5** 2022

Number of consultations - all respiratory including confirmed or suspected COVID-19 and other consultations by week



WEEK **5** 2022

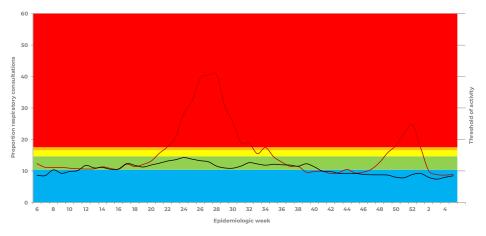
Number of consultations - all respiratory including confirmed or suspected COVID-19 and other consultations by week



WEEK 5 2022

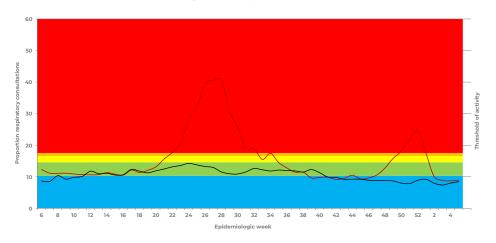
ALL AGES

All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators - Inpatients

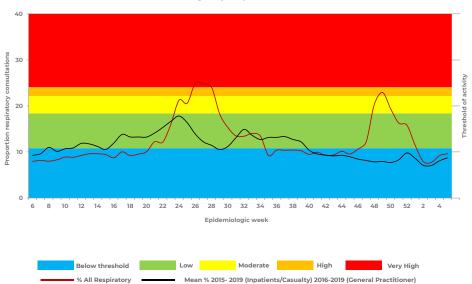


All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients

General Practitioners



Emergency Department



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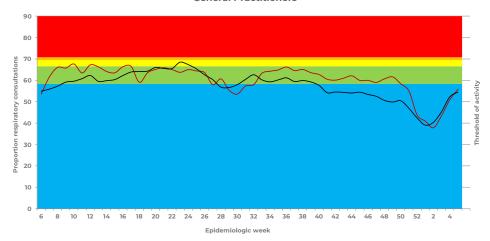
0-4 YEARS OF AGE

All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators - Inpatients

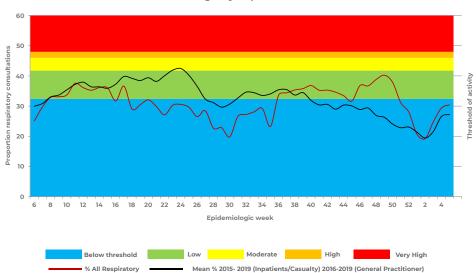


All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients

General Practitioners



Emergency Department



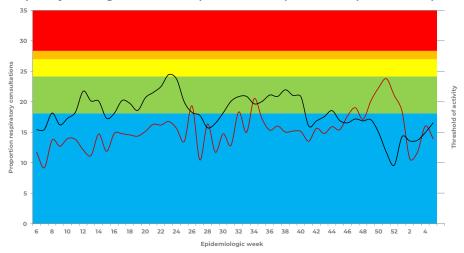
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5-19 YEARS OF AGE

All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators - Inpatients

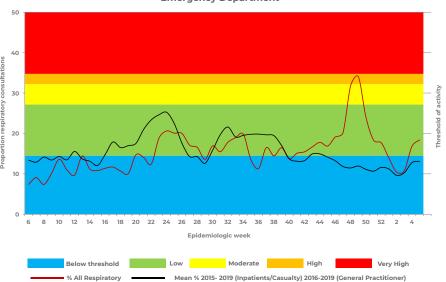


All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients

General Practitioners



Emergency Department



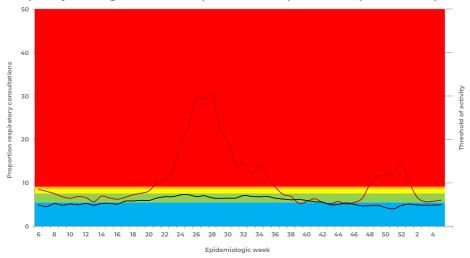
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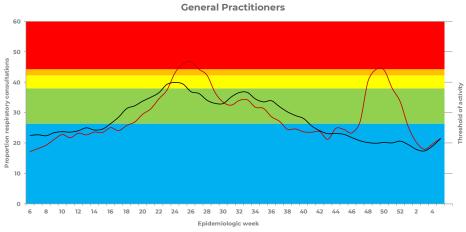
WEEK **5** 2022

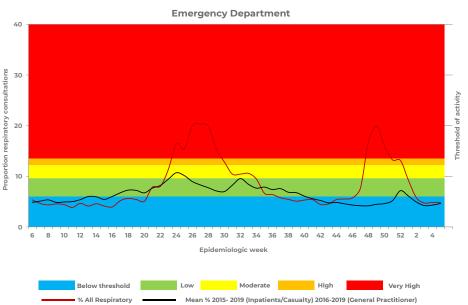
20-49 YEARS OF AGE

All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators - Inpatients



All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients





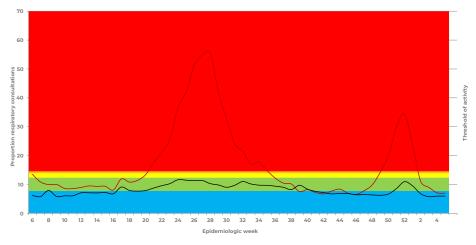
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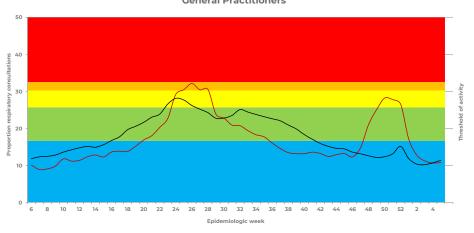
≥50 YEARS OF AGE

All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators - Inpatients

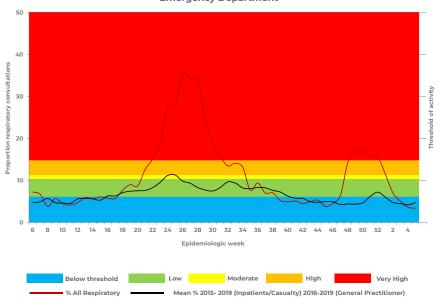


All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients

General Practitioners



Emergency Department



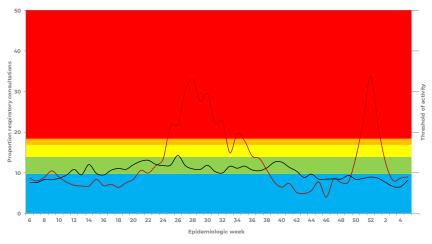
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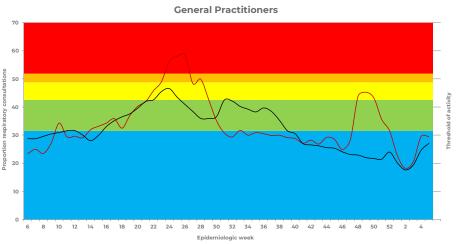
WEEK 5 2022

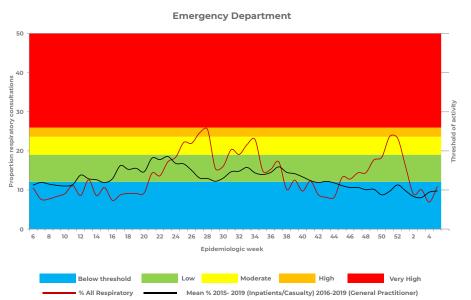
EASTERN CAPE PROVINCE

All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Inpatients



All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients





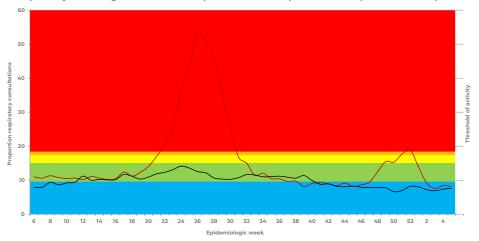
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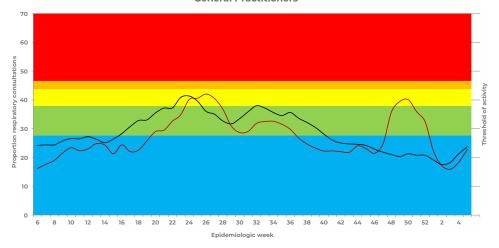
GAUTENG

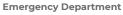
All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators - Inpatients

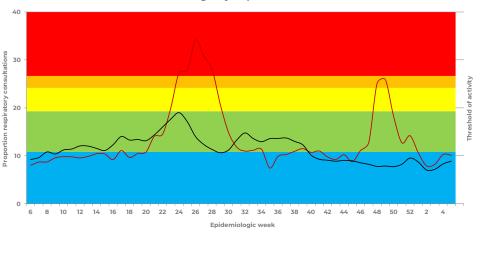


All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients

General Practitioners







Moderate

Mean % 2015- 2019 (Inpatients/Casualty) 2016-2019 (General Practitioner)

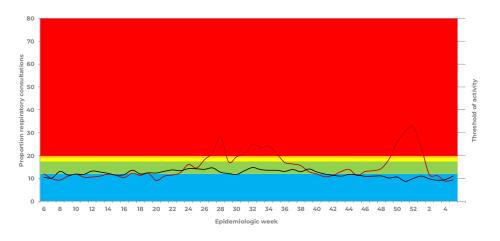
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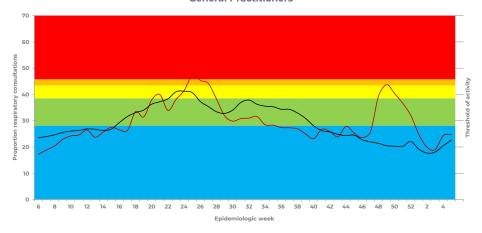
KWAZULU-NATAL

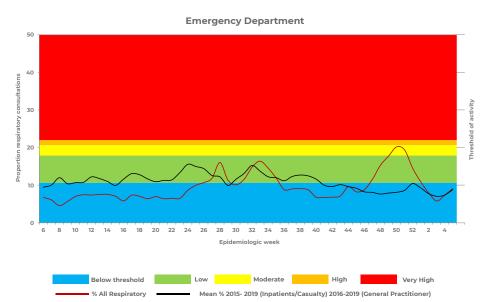
All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators - Inpatients



All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients

General Practitioners

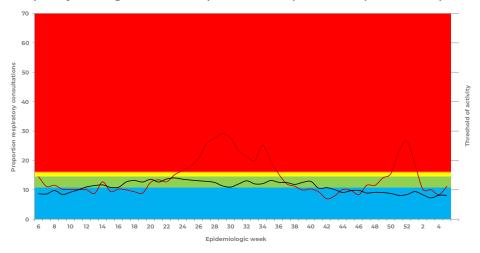




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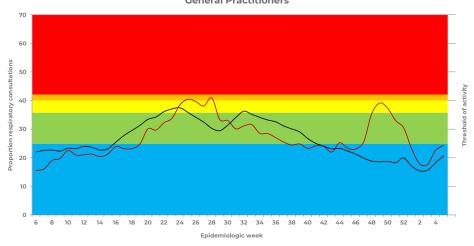
WESTERN CAPE PROVINCE

All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators - Inpatients



All Respiratory including confirmed or suspected COVID-19 (J00-J99 & U07) indicators – Outpatients

General Practitioners



Emergency Department

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