



**Division of the National Health Laboratory Service** 

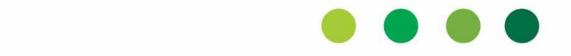
# Measles and rubella surveillance and outbreaks update in South Africa,2022-March 2025

02 April 2025



# **Outline of the presentation**

- 1. Data source: measles-rubella surveillance and outbreaks
- 2. Measles-rubella surveillance monitoring
- 3. Measles-rubella reporting



# Measles and rubella surveillance and outbreak data



## **Clinical surveillance**

- Notifiable medical condition surveillance system(NMCSS)
  - NMC notification forms
- Case based surveillance of suspected and confirmed measles
  - Clinical cases-epidemiological linkage
  - Clinical compatible cases
    - Clinical diagnoses
    - No laboratory results for measles or rubella differential diagnosis
- Laboratory confirmed cases

# **Laboratory surveillance**

- Suspected measles cases diagnosed by clinicians
  - IgM test for measles and rubella (gold standard test for surveillance)
  - Avidity test in patients with measles and rubella dual positive test outcome
  - Measles and rubella pcr test in some cases
    - Mostly IgM equivocal cases
- Measles genotype surveillance
  - Monitor measles genotype strains circulating in the country
  - Monitoring importation of measles strains from other countries
    - Need epidemiological data



# Clinical surveillance

#### Measles suspected case

 An illness in a patient with fever and generalized maculopapular (non-vesicular) rash, or in a patient whom a health care worker suspects has measles. Case based surveillance of suspected and confirmed measles

#### Clinical measles cases

- Any person in whom a clinician suspects measles infection; or
- Any person with fever and maculopapular rash (i.e., non-vesicular) and:
  - cough, or
  - coryza (i.e., runny nose) or
  - conjunctivitis (i.e., red eyes).
- Laboratory-confirmed measles case
- Epidemiological case
- r
- Discareded case

#### Final case classification

#### Laboratory confirmed case

 A suspected case of measles that has been confirmed positive by testing in a proficient laboratory, and vaccine-associated illness has been ruled out

#### Epidemiologically linked case

- A clinical case of measles that has not been confirmed by a laboratory, but was geographically and temporally related, with dates of rash onset occurring 7–21 days apart from a laboratory-confirmed case or another epidemiologically linked measles case.
- Discarded case



- NMC forms and CIFs available on the NICD website: <a href="https://www.nicd.ac.za/diseases-a-z-index/measles/">https://www.nicd.ac.za/diseases-a-z-index/measles/</a>
- Laboratory form must be accompanied by CIFs if received with specimen

Health facility name (with pro	ovincial pre	fix)			Heal	th facil	ity conta	ct number		Healt	h district			
Patient file/folder number			tient HPR	S-PRN			.,		of notification	V	v v v			
Patient demographics								Pati	ent residential a	ddress				
First name									Street/dwelling u	unit/buildi	ng/ERF nun	nber		
Surname														
S.A ID number														
Passport/other ID number														
Citizenship								Emp	loyer/education	al institu	tion addres	ss		
Date of birth									Institution name					_
Nac.														
Age Gender	Male		Female											
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S patient pregnant? Contact number	768		IVO					Cont	act number					
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ravel history in the last 60	) days													
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											$y \mid y \mid y$			
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pecimen details							Not	fying heal	th care provider	's details	3			
Vas a specimen collected?		Yes		No			First	name						
Date of specimen							Surr	name						
Specimen barcode/lab number				Mobile number										
opcomon baroacrab nambor				SANC/HPCSA number				Notifier's signature						

PATENTOETALS  Foll name:			This is a suspected case of: measles 🗆 rubella 🗆 uncertain 🗆
Full name:FDOB unknown Age:Unit: Days   Wks   Morths   Ys    Date of birk:FDOB unknown Age:Unit: Days   Wks   Morths   Ys    Full Clark	of Protein Othe) Country	Prov Code District Code Y	fear Orsell Case number
Date of brits			
Steel address:			
Health District		OOB unknown Age:Ur	ilt Days   Wks   Months   Yrs
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Case Notified: Y	Date of specimen collection:	1 1	
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Vaccination Information Obtained from: Road to health card   Self-eported   Not obtained	feasles-containing vaccination rec	eived: Y N D U	admission: Diagnosis at health Facility:  riknown Name of measles-containing vaccine (according to road to health card):
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Measles and rubella surveillance monitoring



#### **NMC Data**

- Measles and rubella notification can be monitored daily, weekly and monthly
- Measles cases are notified in real time after laboratory confirmation through NMCSS
- Measles and Rubella data is accessible from facility level in the NMCSS
- National level and NICD data is analysed and shared with relevant stakeholders

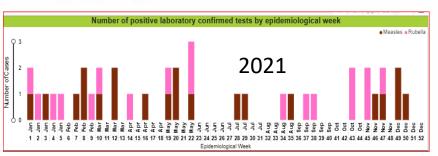
Year	No. of Measles IgM tests	Measles Positive tests	Measles testing Positivity rate(%)	No. of Rubella IgM tests	Rubella Positive tests	Rubella testing Positivity rate(%)
2021	741	21	2,76 %	741	18	2,37%
2022	3395	439	9,90 %	3395	23	0,57%
2023	7296	1029	12,36 %	7296	986	11,71%
2024	24374	830	3,29%	24381	13 632	35,86%
2025	1016	102	9,12%	1016	230	18,46%

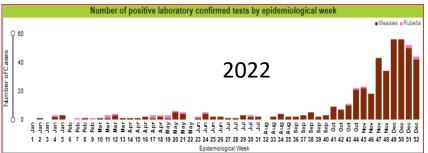
#### Laboratory surveillance

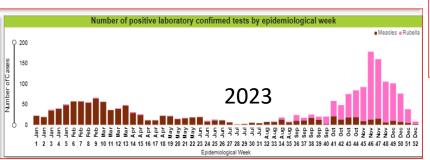
- Measles laboratory data is monitored on daily basis
- Laboratory confirmed cases are available to the clinicians on the laboratory information system by requested clinician at facility level
- Laboratory confirmed cases are shared with department of health at national, provincial and district level
- Measles and rubella surveillance case base contains both NMC and laboratory cases

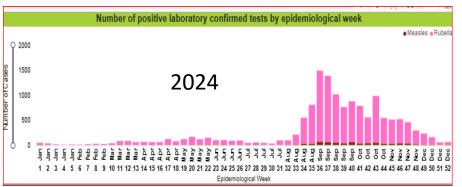


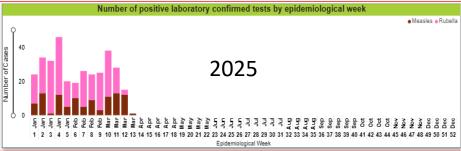
#### Laboratory-confirmed measles and rubella cases, 2022 to week 13, 2025











https://www.nicd.ac.za/measles-rubella-dashboard/; accessed 28 March 2025

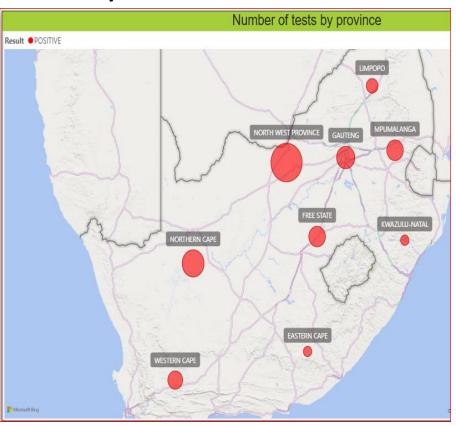
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#### Laboratory-confirmed measles and rubella cases by province week 1 to 13, 2025

#### **Laboratory confirmed measles cases**

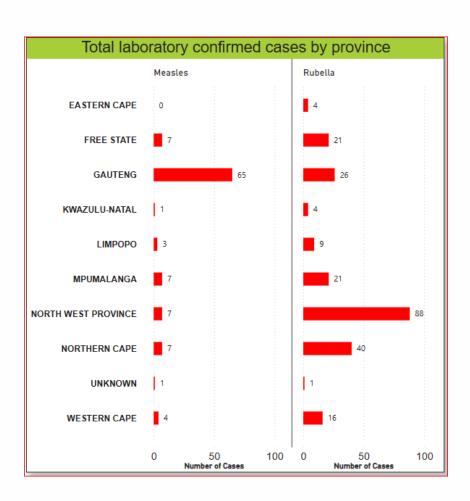
# Number of tests by province Result POSITIVE MPUMALANGA NORTH WEST PROVINCE KWAZULU-NATAI

#### **Laboratory confirmed rubella cases**





#### Laboratory-confirmed measles and rubella cases, Week1 to week 13, 2025



#### Measles surveillance update

- Laboratory confirmed cases detected 103
- 67 measles were from Gauteng province
  - City of Johannesburg -40 cases
    - Johannesburg B(14 cases) and F(15)
  - City of Tshwane -19 cases

#### Rubella surveillance update

- Laboratory confirmed cases detected 238
- Most affected districts are:
  - Ngaka Modiri Molema in North West province- 70 cases
  - Namakwa district in Northern Cape province -28

## Measles cases by age group 2025,

PROVINCE	0-6 Months	7-11 Months	1-4 Years	5-9 Years	10-14 Years	15-49 Years	>= 50 Years	Total
Eastern Cape	0	0	0	0	0	0	0	0
FREE STATE	0	0	0	3	0	1	0	4
GAUTENG	8	5	14	17	7	12	0	63
LIMPOPO	0	0	1	1	0	1	0	3
MPUMALANGA	0	0	1	2	2	2	0	7
NORTH WEST	0	0	1	5	1	0	0	7
NORTHERN CAPE	1	0	1	1	1	1	0	5
WESTERN CAPE	2	0	0	0	0	2	1	5
South Africa	11	5	18	29	11	19	1	94

- Measles cases are detected in older age group
- Suggest immunity gap in ages not target by supplementary measles immunisation campaigns



PROVINCE	0-6 Months	7-11 Months	1-4 Years	5-9 Years	10-14 Years	15-49 Years	>= 50 Years	Total
EASTERN CAPE	0	0	0	1	2	1	0	4
FREE STATE	0	0	4	16	0	1	0	21
GAUTENG	1	2	8	9	1	5	0	26
KWAZULU- NATAL	1	0	1	2	0	0	0	4
LIMPOPO	0	0	3	4	2	0	0	9
MPUMALANGA	0	0	3	12	5	1	0	21
NORTH WEST	0	0	15	50	23	0	0	88
NORTHERN CAPE	0	0	3	24	6	6	0	39
WESTERN CAPE	2	0	5	4	4	0	0	15
South Africa	4	2	42	122	43	14	0	227

- Rubella infection in females of age child bearing a risk of having a congenital rubella syndrome baby if infected in the first trimester of pregnancy
- Where possible the patient needs to be followed up until they give birth



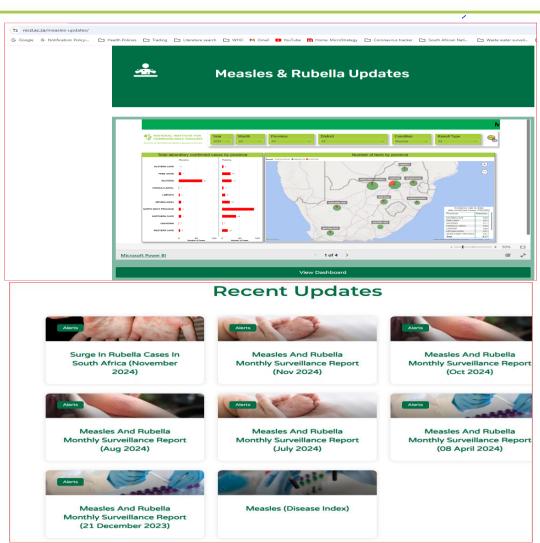
Measles and rubella surveillance reports and during outbreaks



Different types of reports are shared for public health response

- Measles alerts for detected outbreaks
- Measles and rubella situation reports
  - Depending on the period of the outbreak
    - Daily, weekly, monthly

NICD developed a measles and rubella dashboard to monitor measles and rubella circulation





- Monitoring of measles and rubella assists in:
  - Understanding where (place) is the outbreak, who is affected and when did the outbreak start
  - Monitoring the effectiveness of the vaccination programme
  - Guide in developing public health response strategies during outbreak response
    - Vaccination plans
    - Risk communication plans
- After action review need to be done to assess
  - Gaps that let to measles and rubella outbreak
  - Review how the measles and rubella surveillance and outbreak response plans