



**NATIONAL INSTITUTE FOR
COMMUNICABLE DISEASES**

Division of the National Health Laboratory Service

The National Institute for Communicable Diseases
The Division of Public Health, Surveillance, and response
NOTIFIABLE MEDICAL CONDITIONS SURVEILLANCE SYSTEM
May 2024 report

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Introduction

Data used in this report was drawn from the NMC-SS on **03 July 2024**. The most recent report should always be viewed and can be found in [NMCSS surveillance reports](#)

The purpose of this report is to describe the number of notifications received by the Notifiable Medical Conditions Surveillance System (NMCSS). The report is publicly available and can be used by health professionals, researchers, the general public, or any other stakeholder. The purpose of disseminating this information is to inform any public health action - NMCSS data has limitations (see [NMCSS interpretation.](#)), but serves as a public health signal that may warrant further investigation.

This report also monitors some surveillance system attributes. Including average notifications by facilities, data quality and timeliness of clinical diagnosis and notifications over time. (**see Appendix Nos. 1 and 3**).

While this information is also publicly available, we aim this section of the report at those involved in notifying. These include Infection Prevention Control practitioners at facilities, Nurses, Doctors, pathologists and laboratory staff.

Category 4 NMCs, COVID-19, and multi-system inflammatory syndrome (MIS-C) have been excluded from this report. Where weeks are presented, the Epi-week according to the CDC Epi-weeks are used.

Highlights

- A total of 10 600 cases were notified in May 2024 and most were category 2 conditions.
- The most common **confirmed** category 1 notifications were Malaria (n=216), Measles(n=20), and Rubella (n=12).
- Category 1 cases were reported in a median (IQR) of 0 (0, 2) days.
- There were 410 active users in May 2024

NMC Reporting application

- [NMC Reporting App](#). is available on both web and mobile platforms
- Use recommended browsers to access the NMC reporting App for notifications, and searching of cases and reports.
- Register if you have no NMC account and you can reset the password if you have not used the application for over 12 months.

NOTES: For any additional information contact the NMC national technical team: NMCAppSupport@nicd.ac.za or NMC hotline 072 621 3805. Please refer to Appendices for NMC data flow, definitions and interpretation of epidemiology data in this report.

DATA IS CONTINUOUSLY CLEANED, DE-DUPLICATED, AND UPDATED, HENCE IS SUBJECT TO CHANGE. ALL NUMBERS REPORTED ARE PRELIMINARY UNLESS OTHERWISE STATED. DATE OF DIAGNOSIS IS USED FOR REPORTING.

Current notification trends

Trends of notifications of selected conditions are presented below. Notifications that are confirmed are shown first. Confirmed notifications are verified and confirmed by the relevant centre at the NICD and can be considered confirmed cases. All notifications are shown after and include notifications that can be considered suspected cases. These are presented to show the sensitivity of the surveillance system in recognising disease signals.

Confirmed notifications
Epi-table

Table 1: Number of confirmed notifications on NMCSS per Epi-week in 2024. The average weekly notifications are calculated based on notifications received in 2022 and 2023 with a confidence interval.

Average Notifications			Epi-weeks																			
Characteristic		95% CI ¹	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Acute flaccid paralysis	0.0303	1.0, 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cholera	0.95	1.5, 5.5	3	2	0	0	0	2	0	0	1	2	0	1	1	0	0	0	0	0	0	0
Congenital rubella syndrome	0.0130	NA, NA	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Covid-19	411	25, 260	5	2	1	3	3	3	7	2	6	6	3	1	4	7	4	4	16	8	7	3
Crimean-Congo viral haemorrhagic fever (human)	0.0173	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diphtheria	0.10	1.0, 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Enteric fever (typhoid or paratyphoid fever)	1.26	1.5, 2.0	2	6	3	1	2	2	3	1	3	3	0	1	1	2	0	0	4	1	1	2
Foodborne illness outbreak	0.0823	1.0, 3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Listeriosis	0.51	1.0, 1.5	1	3	2	1	1	2	2	0	0	1	0	0	0	0	0	0	1	0	1	0
Malaria	89	69, 87	217	187	109	116	61	48	61	48	60	52	34	40	42	55	53	51	63	44	59	24
Measles	1.43	2.0, 3.0	1	0	0	0	1	4	0	1	2	3	0	1	2	1	2	3	3	1	1	2
Meningococcal disease	0.90	1.5, 2.0	4	5	1	0	2	2	1	2	4	0	1	3	1	2	2	2	6	2	6	4
Mpox	0.0087	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Pertussis	10	13, 18	21	6	15	7	3	6	5	18	10	10	11	6	5	12	7	21	3	4	3	3
Rabies	0.09	NA, NA	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Respiratory disease caused by a novel respiratory pathogen	0.0087	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	1.45	2.5, 6.0	3	3	4	5	0	3	3	0	4	4	25	0	10	2	4	5	3	1	5	1

¹CI = Confidence Interval

Trends Plot

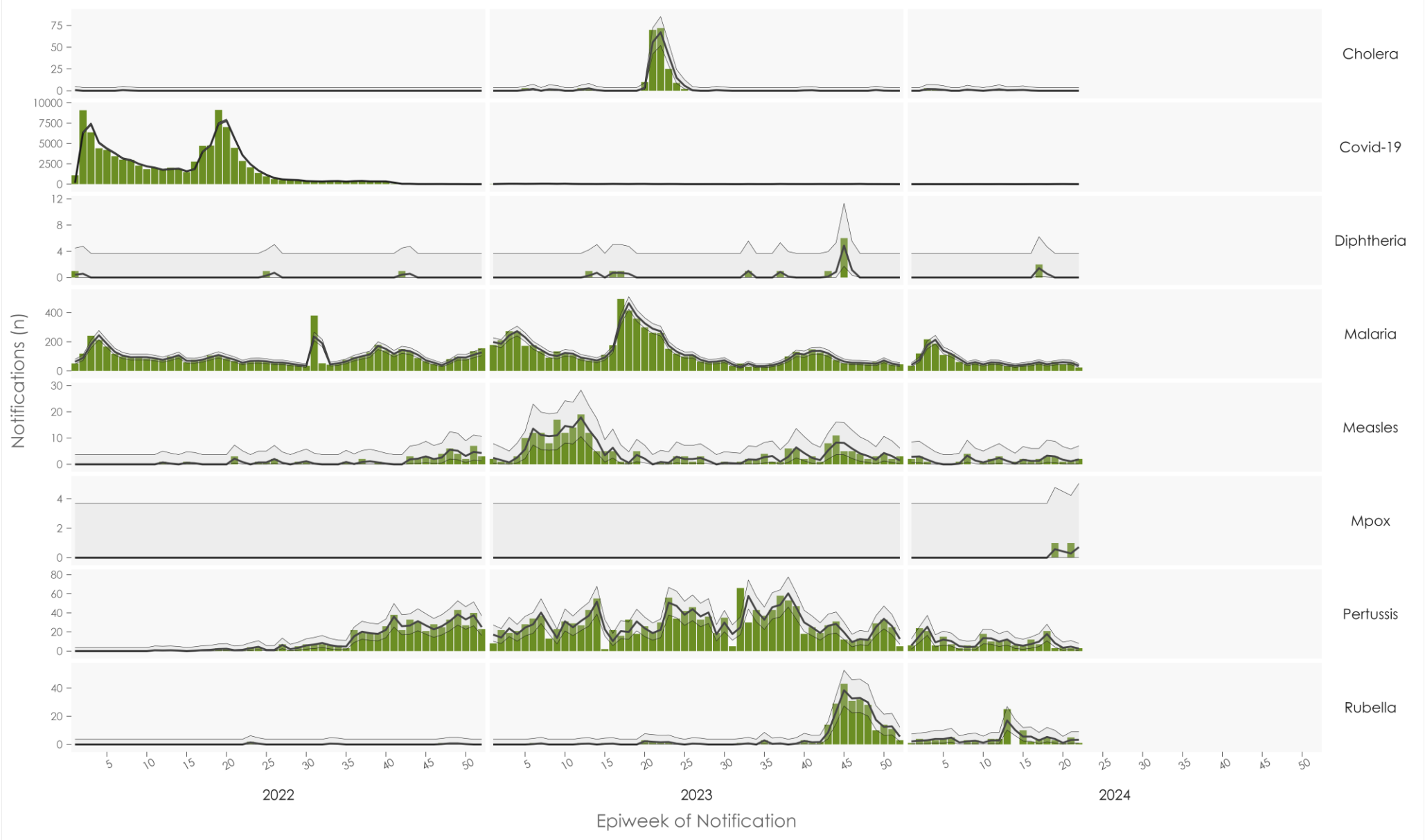


Figure 1: Trend of weekly number of confirmed notifications for selected category 1 conditions reported to the NMC, in South Africa; January 2022-May, 2024

All Category 1 Conditions at a glance

Table 2: The number of notifications that are suspected and confirmed for category 1 conditions notified during May 2024

Condition	Overall, N = 816 ¹	Confirmed, N = 271 ¹	Suspected, N = 545 ¹
Acute flaccid paralysis	25	0	25
Acute rheumatic fever	0	0	0
Anthrax	0	0	0
Botulism	0	0	0
Cholera	1	0	1
Congenital rubella syndrome	11	0	11
Covid-19	0	0	0
Crimean-Congo viral haemorrhagic fever (human)	0	0	0
Diphtheria	2	0	2
Ebola virus (VHF)	0	0	0
Enteric fever (typhoid or paratyphoid fever)	16	4	12
Foodborne illness outbreak	36	0	36
Haemolytic uraemic syndrome (HUS)	1	0	1
Listeriosis	2	1	1
Malaria	216	216	0
Marburg virus (VHF)	0	0	0
Measles	306	7	299
Meningococcal disease	22	20	2
Mpox	3	2	1
Pertussis	57	9	48
Plague	0	0	0
Poliomyelitis	0	0	0
Rabies	0	0	0
Respiratory disease caused by a novel respiratory pathogen	1	0	1
Rift Valley fever (human)	0	0	0
Rubella	117	12	105
Smallpox	0	0	0
Yellow fever	0	0	0

¹Suspected and confirmed cases are independent and are not totalled - suspected and confirmed cases are distinct.

NMC data summary, May 2024

A total of 10,600 current and delayed cases were notified to the NMCSS during May 2024 **(See Table 9 for further breakdowns and Appendix No.3 for definitions)**. There were 10 532 current notifications; the majority (9 587, 91%) were category 2 conditions. The provinces with the highest number of notifications were GP (2 588, 25%), KZN (2 483, 24%), and WC (1 804, 17%). The provinces with the least number of notifications were MP (400, 3.8%), and NW (408, 3.9%). There were 68 back captured clinical notifications diagnosed between December, 2023 and May, 2024 and only notified during May, 2024. The majority (20, 29%) of those notifications were Rubella. **(See Appendix No.1)**.

Most of the notified cases were males (6 131, 58%). Individuals in the 35–39-year age group represented the majority (1 159, 12%) of notified cases. At the time of notification, 2 222 (21%) of the notified cases were hospitalised, while 71 (0.7%) were transferred to another healthcare facility. There were 117 deaths notified during the reporting period

Category 1 notifications

Measles was the most common (306, 38%) category 1 notification (**suspected and confirmed**). The province with the highest number of notifications for Measles was WC (104,34%). **Malaria** was the most common (216, 80%) category 1 notification **confirmed**. The province with the highest number of confirmed notifications for Malaria was GP (84,38.9%).

Table

Table 3: The number of notifications by province and number of notifications that are suspected and confirmed by vital status, May 2024

Condition	Provinces									Case		Deaths	
	EC ¹	FS ¹	GP ¹	KZN ¹	LP ¹	MP ¹	NC ¹	NW ¹	WC ¹	Confirmed ¹	Suspected ¹	Confirmed ¹	Suspected ¹
Acute flaccid paralysis	1	0	3	6	3	2	1	0	9	0	25	0	0
Acute rheumatic fever	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthrax	0	0	0	0	0	0	0	0	0	0	0	0	0
Botulism	0	0	0	0	0	0	0	0	0	0	0	0	0
Cholera §	0	0	0	0	1	0	0	0	0	0	1	0	0
Congenital rubella syndrome	1	3	1	2	0	1	0	1	2	0	11	0	1
Covid-19	0	0	0	0	0	0	0	0	0	0	0	0	0
Crimean-Congo viral haemorrhagic fever (human)	0	0	0	0	0	0	0	0	0	0	0	0	0
Diphtheria *	0	0	0	1	0	1	0	0	0	0	2	0	0
Ebola virus (VHF)	0	0	0	0	0	0	0	0	0	0	0	0	0
Enteric fever (typhoid or paratyphoid fever)	0	1	7	0	0	0	0	0	8	4	12	0	0
Foodborne illness outbreak	1	2	13	15	3	2	0	0	0	0	36	0	0
Haemolytic uraemic syndrome (HUS)	0	0	1	0	0	0	0	0	0	0	1	0	0
Listeriosis	0	0	0	0	0	0	0	0	2	1	1	1	0
Malaria	5	8	84	37	26	15	1	15	25	216	0	2	0
Marburg virus (VHF)	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	83	0	83	15	5	4	12	0	104	7	299	0	0
Meningococcal disease	1	2	4	3	1	0	0	2	9	20	2	2	0
Mpox	0	0	2	1	0	0	0	0	0	2	1	0	0
Pertussis	2	0	20	4	3	9	0	1	18	9	48	0	0
Plague	0	0	0	0	0	0	0	0	0	0	0	0	0
Poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabies	0	0	0	0	0	0	0	0	0	0	0	0	0
Respiratory disease caused by a novel respiratory pathogen	0	0	0	0	0	0	1	0	0	0	1	0	0
Rift Valley fever (human)	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	19	8	2	8	2	0	11	2	65	12	105	0	0
Smallpox	0	0	0	0	0	0	0	0	0	0	0	0	0
Waterborne illness outbreak - undefined	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellow fever	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	113	24	220	92	44	34	26	21	242	271	545	5	1

¹n (%);

* Toxin-producing results not available on NMC;

§ Serotype information not available on NMC;

Plot

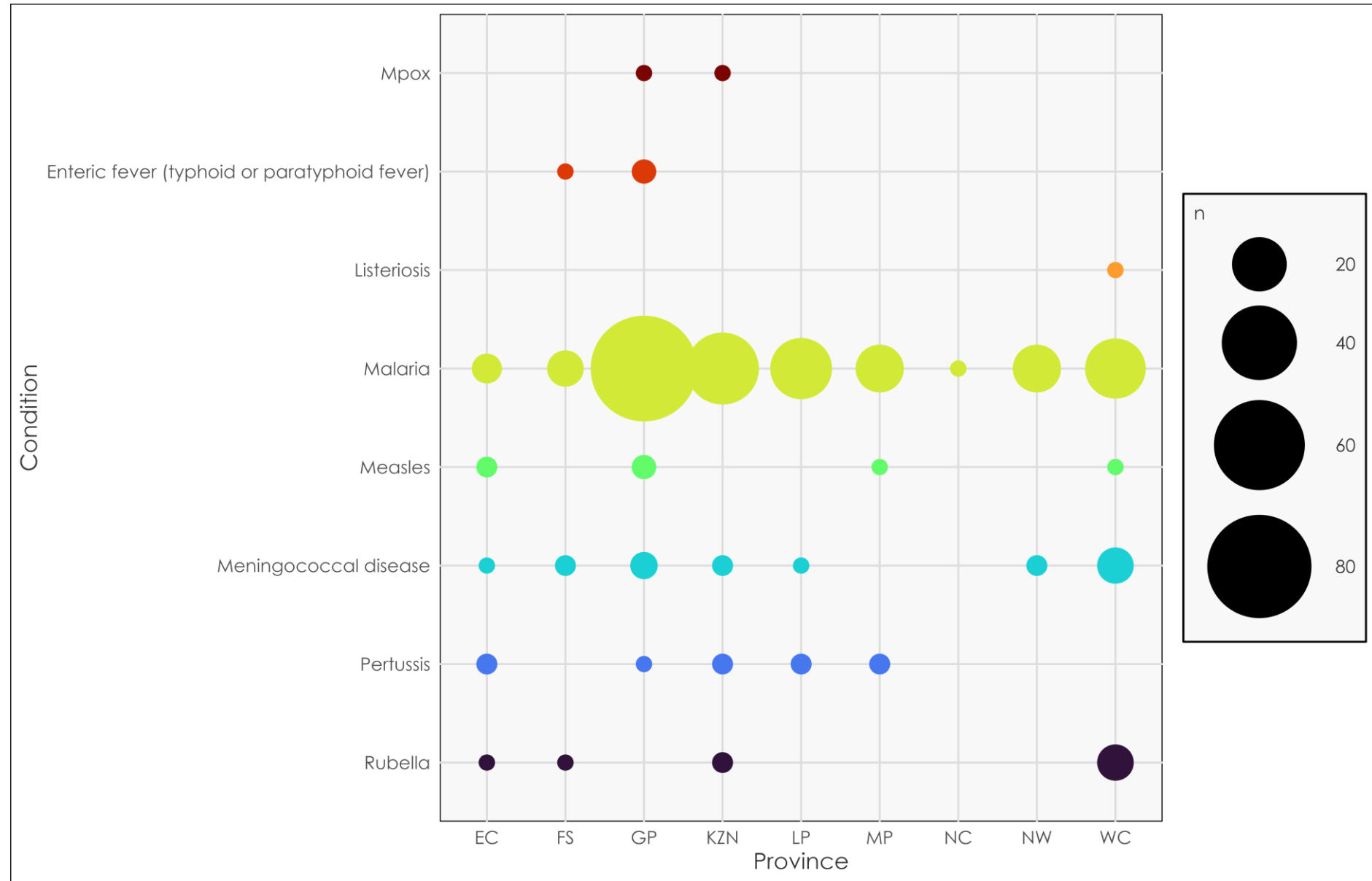


Figure 2: Distribution of selected confirmed category 1 NMCs notifications by province notified during April 2024.

Category 2 notifications

Category 2 conditions must be notified within 7 days of diagnosis. They are important to monitor disease burden trends.

Pulmonary TB was the most common (5 274, 55%) category 2 notification. The province with the highest number of notifications for Pulmonary TB was GP (1505, 28.5%).

Table 4: The number of notifications by province and number of notifications that are suspected and confirmed by vital status.

Condition	Provinces									Case		Deaths	
	EC ¹	FS ¹	GP ¹	KZN ¹	LP ¹	MP ¹	NC ¹	NW ¹	WC ¹	Confirmed ¹	Suspected ¹	Confirmed ¹	Suspected ¹
Agricultural or stock remedy poisoning	4	5	28	0	1	4	1	2	4	0	49	0	11
Bilharzia (schistosomiasis)	36	0	31	320	245	159	1	5	22	59	760	0	0
Brucellosis	0	0	2	0	0	0	0	0	0	0	2	0	0
Congenital syphilis	68	29	57	205	7	18	23	16	52	73	402	1	2
Haemophilus influenzae type B	0	0	2	1	1	1	0	0	1	0	6	0	0
Hepatitis A	36	38	153	162	34	50	15	21	126	96	539	1	0
Hepatitis B	136	40	64	627	7	11	26	83	17	32	979	0	1
Hepatitis C	0	1	8	3	1	0	0	0	3	0	16	0	0
Hepatitis E	0	1	0	0	0	0	0	0	0	0	1	0	0
Lead poisoning	1	0	0	0	0	0	0	0	0	0	1	0	0
Legionellosis	0	0	1	1	0	0	0	0	0	2	0	0	0
Leprosy	0	0	0	0	0	0	0	0	0	0	0	0	0
Maternal death (pregnancy, childbirth and puerperium)	0	0	3	0	0	0	0	0	0	0	3	0	3
Mercury poisoning	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil-transmitted helminths	0	0	0	0	0	0	0	0	1	0	1	0	0
Tetanus	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis: extensively drug-resistant (XDR -TB)	1	0	5	0	1	0	0	1	2	0	0	0	0
Tuberculosis: multidrug- resistant (MDR -TB)	25	3	43	34	5	2	5	2	21	0	0	0	0
Tuberculosis: extra-pulmonary	71	91	458	176	65	19	34	34	194	0	0	0	0
Tuberculosis: pulmonary	542	391	1 505	848	327	101	291	223	1 046	0	0	0	0
Total	920	599	2 360	2 377	694	365	396	387	1 489	262	9 325	2	108

¹n;

* The TB module is under development to align with laboratory-confirmed TB cases.

Plot

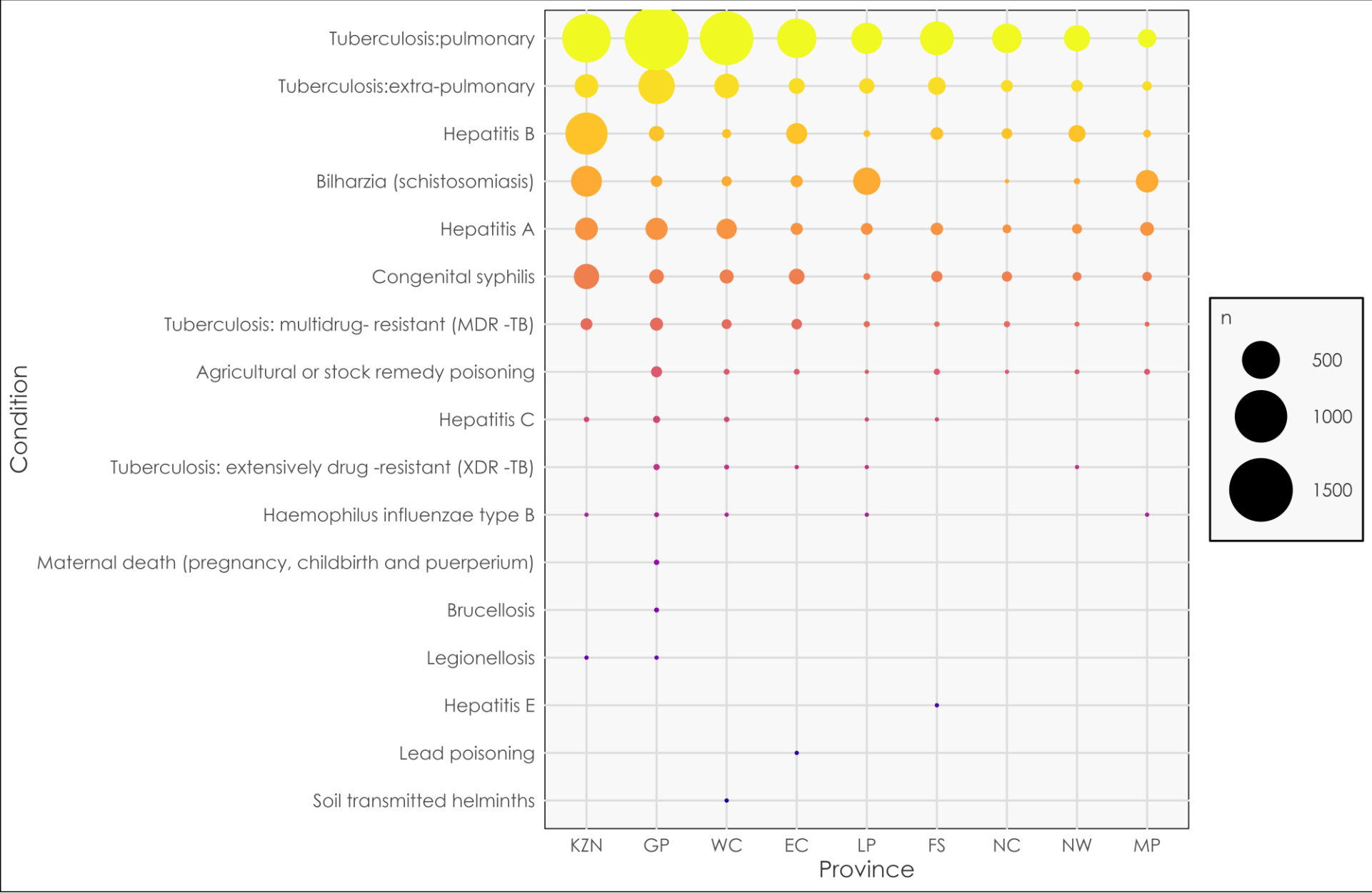


Figure 3: Distribution of all Category 2 NMCs notifications by province notified during May 2024. *All notifications include both suspected and confirmed cases

NMC App Usage Statistics

Table 5: Description of NMC notifications by case source

NMC Category	Overall, N = 10 532	Clinical notifications, n = 7 489	Laboratory notifications, n = 2 682	Merged Cases, n = 361
Category 1	816 (7.7%)	540 (7.2%)	183 (6.8%)	93 (26%)
Category 2	9 587 (91%)	6 949 (93%)	2 378 (89%)	260 (72%)
Category 3	129 (1.2%)	0 (0%)	121 (4.5%)	8 (2.2%)

Notification types and merging

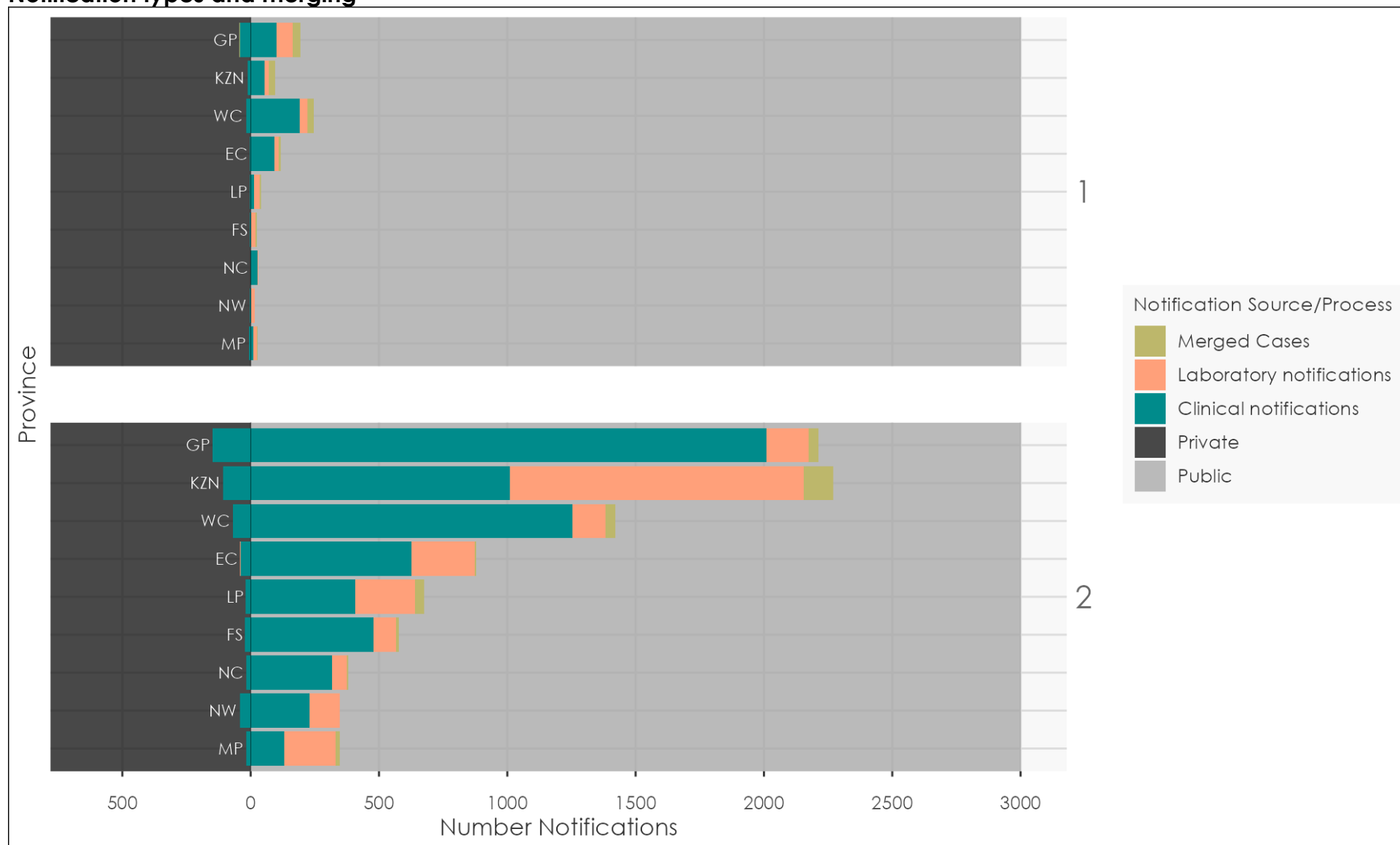


Figure 4: Distribution of Category 1 notification type by province during May 2024

There were 572 (7.3%) clinical notifications from the private sector (i.e., private hospitals, private practice, and mining industry) compared to 7,256 (92%) in the public sector. Clinical notifications using the NMC Reporting Application made up 7687 (73%) (more details in Table 6).

Table 6: Clinical notifications notified by provinces, reporting platform, and sector.

Province	Overall, N = 7 828	App - Private, n = 566	App - Public, n = 7 121	Paper-based - Private, n = 6	Paper-based - Public, n = 135
GP	2 350	184 (7.8%)	2 161 (92%)	3 (0.1%)	2 (<0.1%)
WC	1 579	86 (5.4%)	1 426 (90%)	1 (<0.1%)	66 (4.2%)
KZN	1 308	119 (9.1%)	1 173 (90%)	0 (0%)	16 (1.2%)
EC	770	43 (5.6%)	700 (91%)	0 (0%)	27 (3.5%)
FS	522	25 (4.8%)	492 (94%)	1 (0.2%)	4 (0.8%)
LP	475	23 (4.8%)	452 (95%)	0 (0%)	0 (0%)
NC	363	17 (4.7%)	344 (95%)	0 (0%)	2 (0.6%)
NW	274	44 (16%)	213 (78%)	1 (0.4%)	16 (5.8%)
MP	187	25 (13%)	160 (86%)	0 (0%)	2 (1.1%)

The average active users on the NMC App

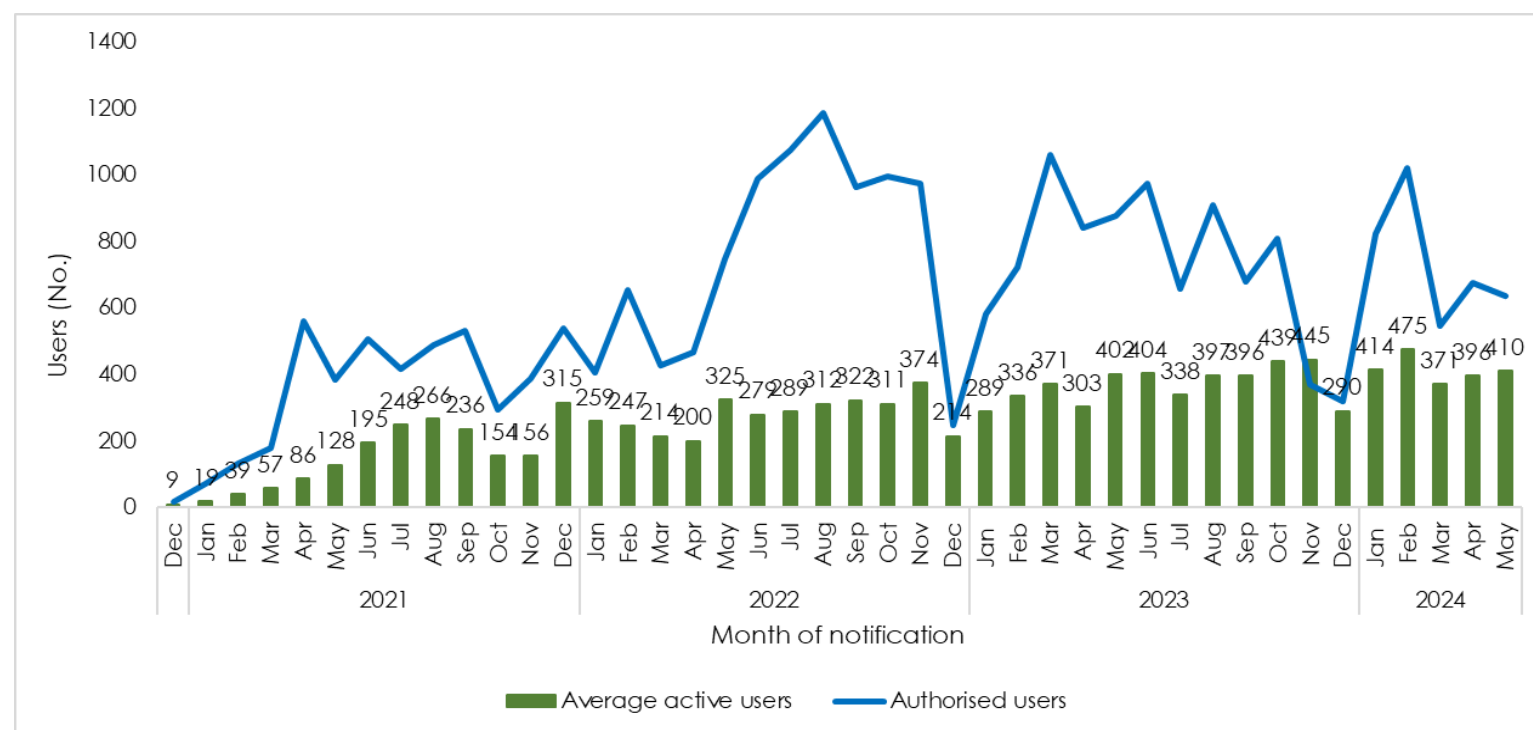


Figure 5: Authorised users and average active users of the NMC Reporting App by month of notification, December 2020-May 2024

Newly registered users

The figure shows the trends of newly registered users and their occupations.

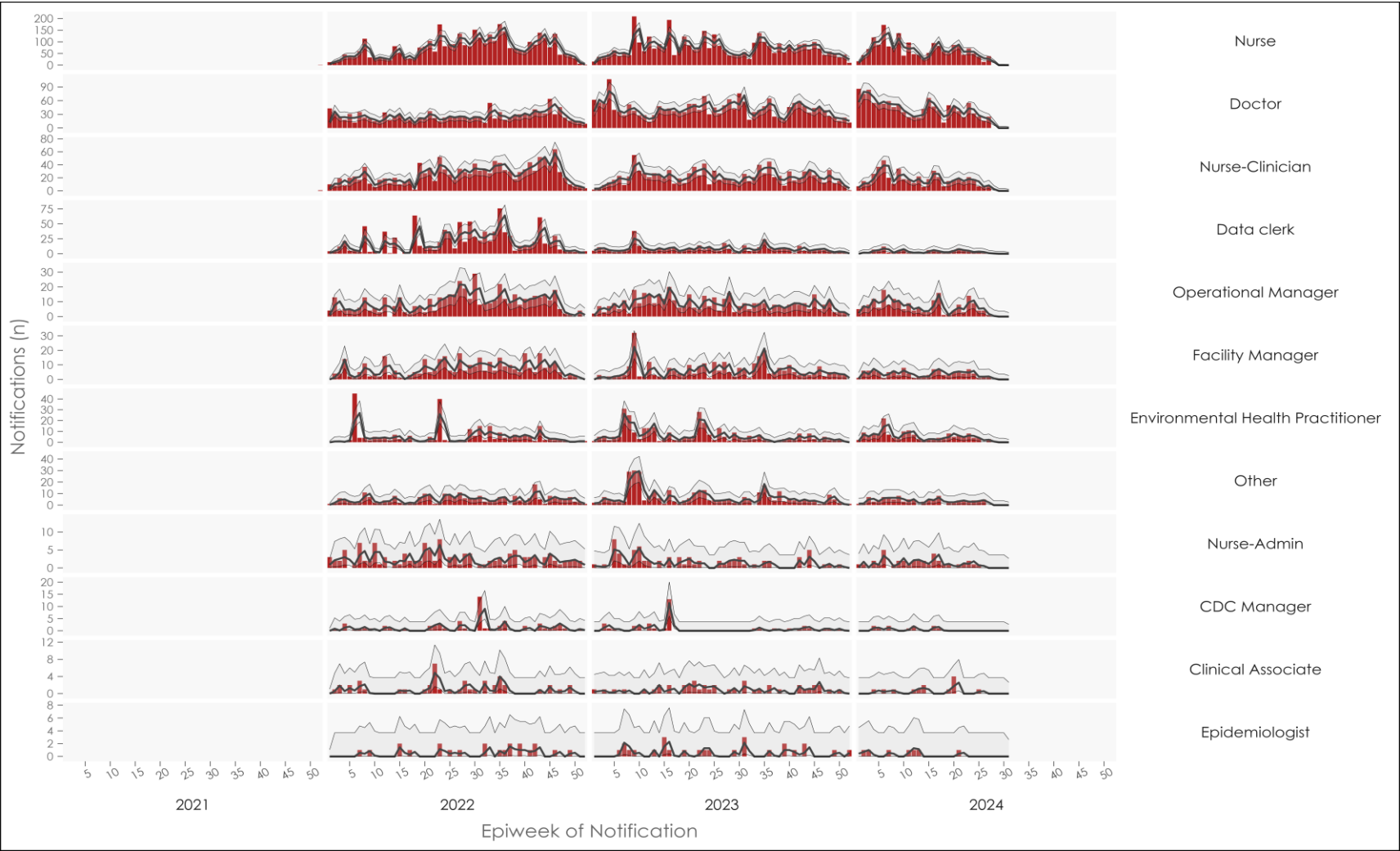


Figure 6: Trends of new users registered by occupation in South Africa, Jan 2022- May 2024

Data quality

Completeness

ID number completeness

Table 7: Length of ID numbers inputted on the NMC system during May 2024

Length of ID number	Android, N = 2 432 ¹	MicroStrategy/SDW, N = 3 012 ¹	Paper-based, N = 143 ¹	Web, N = 4 401 ¹	iOS, N = 544 ¹
Not complete	969 (40%)	2 930 (97%)	97 (68%)	1 375 (31%)	262 (48%)
2	0 (0%)	0 (0%)	0 (0%)	1 (<0.1%)	0 (0%)
5	0 (0%)	0 (0%)	0 (0%)	2 (<0.1%)	0 (0%)
6	4 (0.2%)	7 (0.2%)	0 (0%)	385 (8.7%)	39 (7.2%)
7	0 (0%)	0 (0%)	0 (0%)	7 (0.2%)	0 (0%)
8	0 (0%)	1 (<0.1%)	0 (0%)	38 (0.9%)	3 (0.6%)
9	0 (0%)	0 (0%)	0 (0%)	4 (<0.1%)	0 (0%)
10	0 (0%)	6 (0.2%)	0 (0%)	80 (1.8%)	3 (0.6%)
11	0 (0%)	0 (0%)	0 (0%)	1 (<0.1%)	0 (0%)
12	0 (0%)	0 (0%)	0 (0%)	31 (0.7%)	0 (0%)
13	1 459 (60%)	68 (2.3%)	46 (32%)	2 477 (56%)	237 (44%)

¹n (%)

Hospital Form Completeness

Table 8: Completion of hospitalisation form for notifications reported as inpatients with category 1 conditions in May 2024

*Complete refers to >80% of variables completed.

Hospital Form Completed	Complete, n = 33 (16%)	Incomplete, n = 38 (19%)	Not Attempted, n = 39 (19%)	Only Symptoms completed, n = 92 (46%)
Acute flaccid paralysis	6 (18%)	1 (2.7%)	1 (2.6%)	14 (15%)
Acute rheumatic fever	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Anthrax	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Botulism	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Cholera §	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Congenital rubella syndrome	1 (3.0%)	0 (0%)	1 (2.6%)	1 (1.1%)
Covid-19	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Crimean-Congo viral haemorrhagic fever (human)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Diphtheria *	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Ebola virus (VHF)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Enteric fever (typhoid or paratyphoid fever)	3 (9.1%)	2 (5.4%)	3 (7.9%)	4 (4.3%)
Foodborne illness outbreak	2 (6.1%)	0 (0%)	0 (0%)	9 (9.8%)
Haemolytic uraemic syndrome (HUS)	0 (0%)	0 (0%)	0 (0%)	1 (1.1%)
Listeriosis	0 (0%)	2 (5.4%)	0 (0%)	0 (0%)
Malaria	9 (27%)	14 (38%)	15 (39%)	37 (40%)
Marburg virus (VHF)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Measles	3 (9.1%)	0 (0%)	2 (5.3%)	7 (7.6%)
Meningococcal disease	3 (9.1%)	4 (11%)	5 (13%)	3 (3.3%)
Mpox	0 (0%)	0 (0%)	2 (5.3%)	0 (0%)
Pertussis	5 (15%)	10 (27%)	6 (16%)	15 (16%)
Plague	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Poliomyelitis	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Rabies	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Respiratory disease caused by a novel respiratory pathogen	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Rift Valley fever (human)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Rubella	1 (3.0%)	4 (11%)	3 (7.9%)	1 (1.1%)
Smallpox	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Waterborne illness outbreak - undefined	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Yellow fever	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Unknown	0	1	1	0

Timeliness

Time to notification is measured by the number of days from the time of diagnosis of the NMC to the time of notification. Overall, it took a median (IQR) of 0 (0, 3) days to report category 1 NMCs.

Table 9: Symptoms of patients clinically notified and merged with lab notifications to the NMC, notified during May 2024

Characteristic	Category 1, n = 883	Category 2, n = 9 588	Category 3, n = 129
Time to Notification	0 (0, 3)	2 (0, 9)	4 (3, 5)
Unknown	109	1 057	0
Back Capture Classification			
Back capture	67 (8%)	0 (0%)	0 (0%)
Current	682 (77%)	7 245 (76%)	116 (90%)
Delayed	134 (15%)	2 342 (24%)	13 (10%)
Unknown	0	1	0

Conclusion

The majority of notifications were clinical notifications. Patients who are hospitalised with a category 1 condition and notified still have poor completeness of the hospital form with the majority of notifications only having symptoms completed. ID numbers are poorly completed in notifications from SDW.

Recommendations

- We recommend clinicians complete all patient clinical and demographic details to improve hospital form completeness.
- We strongly recommend complete ID number capture in the SDW system to improve data quality and the ability for the NMCSS to merge clinical and laboratory notifications.
- We welcome stakeholders to send feedback and suggestions for the report. We also encourage reaching out for ingestion of data from data from data sources that existed before the launch of the NMCSS. Feel free to reach out to brianb@nicd.ac.za and matimbam@nicd.ac.za.

Appendices

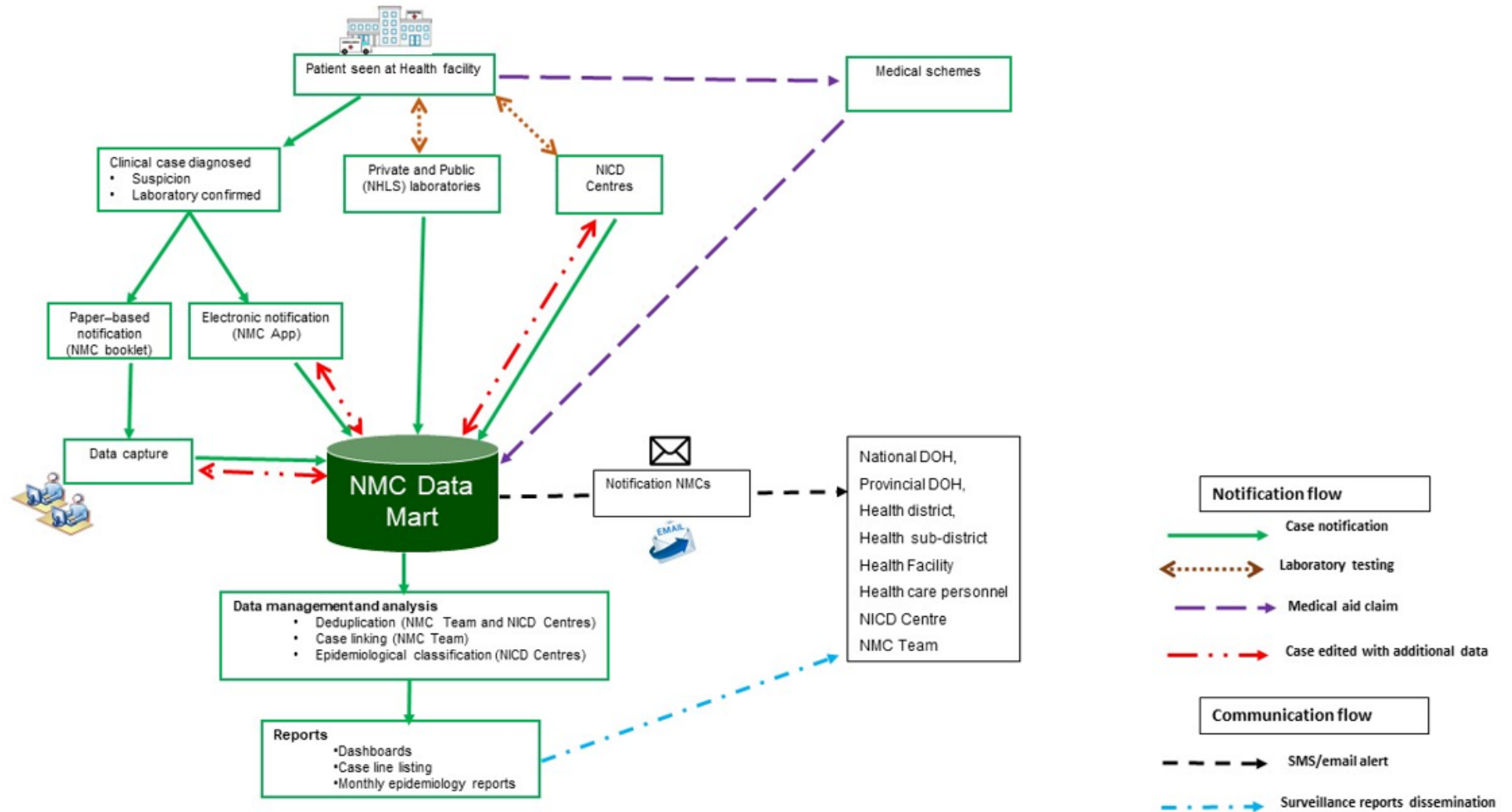
Appendix No.1: Back-captured clinical notifications

Table 10: Back captured notifications by reporting province notified during May \ *Back captured notifications use the diagnosis date, and the recommended time to notification depending on the NMC category. See Appendix No. 3 for details

Condition	Overall	Province							Case Source			
	Overall, (68)	EC, (8)	FS, (2)	GP, (18)	KZN, (15)	MP, (1)	NC, (3)	WC, (21)	Android, (1) ¹	SDW, (23) ¹	Web, (41) ¹	iOS, (3) ¹
Rubella	20 (29%)	1	0	3	1	1	1	13	0	4	16	0
Pertussis	13 (19%)	2	1	7	0	0	0	3	1	7	4	1
Foodborne illness outbreak	11 (16%)	0	0	0	11	0	0	0	0	0	11	0
Measles	8 (12%)	2	0	0	0	0	2	4	0	3	5	0
Acute flaccid paralysis	4 (5.9%)	1	0	3	0	0	0	0	0	0	2	2
Enteric fever (typhoid or paratyphoid fever)	4 (5.9%)	0	0	2	1	0	0	1	0	4	0	0
Malaria	4 (5.9%)	0	1	2	1	0	0	0	0	2	2	0
Listeriosis	2 (2.9%)	1	0	1	0	0	0	0	0	2	0	0
Congenital rubella syndrome	1 (1.5%)	1	0	0	0	0	0	0	0	1	0	0
Tuberculosis: pulmonary	1 (1.5%)	0	0	0	1	0	0	0	0	0	1	0

¹SDW – Surveillance data warehouse/ MicroStrategy

Appendix No.2: Summary of NMCSS Data Flow



Appendix No.3: NMC Categories, and Case Classification Definitions

NMC categories

Category 1: NMCs are notified by the most rapid means available upon diagnosis, followed by a written or electronic notification to the Department of Health within 24 hours of diagnosis by healthcare providers, private health laboratories or public health laboratories. These conditions must be notified based on clinical suspicion irrespective of laboratory confirmation.

Category 2: NMCs notified through a written or electronic notification to the Department of Health of clinical or laboratory diagnosis within 7 days by healthcare providers, private health laboratories or public health laboratories.

Category 3: NMCs are notified through a written or electronic notification to the Department of Health within 7 days of diagnosis by public and private health laboratories.

Category 4: NMCs are notified through a written or electronic notification to the Department of Health within 1 month of diagnosis by public and private health laboratories.

Case Classification definitions

Clinical cases: are cases reported to the NMC by health care providers at facilities, either through completion of a paper form that is faxed, emailed to the National Institute of Communicable Diseases (NICD), or by direct data entry into the NMC application on a PC, laptop or mobile device. The diagnosis is made by the clinician based on case definitions published on the NICD website.

Laboratory cases: are cases that are downloaded into the NMC database directly from the National Health Laboratory Services (NHLS) laboratory information system. The NMC application applies the case definitions that are published on the NICD website. Private sector data is being sourced.

Merged cases: are cases where a case was notified by a health care provider at the facility (a 'clinical case') AND the laboratory issued a report with a positive result for the same case (a 'laboratory case'). The NMC App is set up to automatically detect and link clinical and laboratory case notifications. The NICD specialist Centres and NMC data team review all cases and manually link any remaining clinical and laboratory cases

Notification capture times definitions

Current notification: Category 1 conditions notified within 2 days of diagnosis date. Category 2 and 3 conditions are notified within 7 days of diagnosis. All lab notifications without diagnosis date are classified as current.

Delayed notification: Category 1 conditions are notified within between 3 and 7 days of diagnosis date. Category 2 and 3 conditions are notified between 8 and 30 days of diagnosis.

Back capture notification: Category 1 conditions are notified more than 7 days after the diagnosis date. Category 2 and 3 conditions notified more than 30 days after the diagnosis date.

Epi-weeks: Epi-weeks used the CDC definition of a week starting on a Sunday and ending on a Saturday. The first Epi-week of the year is the week that contains the first Saturday of January. Epi-week 1 of 2024 started on 31 December 2023 and ended on 6 January 2024.

Appendix No.4: IDSR reporting template for IDSR conditions existing on NMC by under-5 and 5-and-over years and vital status.

Table 11: The number of IDSR conditions the laboratory notified to the NMC using the IDSR reporting template of under and 5-and-above years by vital status.

Condition	Notified/Suspected				Confirmed
	Under 5 A, N = 288 ¹	5 & over A, N = 250 ¹	5 & over D, N = 0 ¹	Under 5 D, N = 1 ¹	N = 271 ¹
Acute flaccid paralysis	18	7	0	0	0
Acute rheumatic fever	0	0	0	0	0
Anthrax	0	0	0	0	0
Botulism	0	0	0	0	0
Cholera	1	0	0	0	0
Congenital rubella syndrome	8	0	0	1	0
Covid-19	0	0	0	0	0
Crimean-Congo viral haemorrhagic fever (human)	0	0	0	0	0
Diphtheria	2	0	0	0	0
Ebola virus (VHF)	0	0	0	0	0
Enteric fever (typhoid or paratyphoid fever)	8	3	0	0	4
Foodborne illness outbreak	24	12	0	0	0
Haemolytic uraemic syndrome (HUS)	1	0	0	0	0
Listeriosis	0	1	0	0	1
Malaria	0	0	0	0	216
Marburg virus (VHF)	0	0	0	0	0
Measles	133	164	0	0	7
Meningococcal disease	1	1	0	0	20
Mpox	1	0	0	0	2
Pertussis	35	12	0	0	9
Plague	0	0	0	0	0
Poliomyelitis	0	0	0	0	0
Rabies	0	0	0	0	0
Respiratory disease caused by a novel respiratory pathogen	1	0	0	0	0
Rift Valley fever (human)	0	0	0	0	0
Rubella	55	50	0	0	12
Smallpox	0	0	0	0	0
Waterborne illness outbreak - undefined	0	0	0	0	0
Yellow fever	0	0	0	0	0

¹A = Cases who are alive.

D = Cases who are deceased.

Appendix no.5: Trends and epi-table of all Category 1 notifications 2022 to May 2024.

All Notifications

Epi-table

Table 12: Number of notifications on NMCSS per epi-week in 2024. The Average notifications are calculated based on notifications received in 2022 and 2023 with a confidence interval.

Characteristic	Average Notifications		Epi-weeks																			
	95% CI ¹		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Acute flaccid paralysis	3.61	3.5, 4.5	6	6	7	1	8	4	6	10	7	5	1	6	4	8	3	7	9	5	4	6
Acute rheumatic fever	0.26	1.0, 1.5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthrax	0.0087	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Botulism	0.0476	1.0, 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cholera	6.5	3.0, 7.5	12	8	48	12	12	11	14	5	8	6	3	2	2	2	0	3	0	0	1	0
Congenital rubella syndrome	1.94	2.0, 2.5	2	2	5	3	2	6	2	4	6	2	4	1	2	2	2	3	1	5	4	1
Covid-19	1 197	556, 909	130	126	107	130	112	143	133	110	123	101	99	102	148	218	251	250	385	356	364	205
Crimean-Congo viral haemorrhagic fever (human)	0.12	1.0, 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Diphtheria	0.55	1.0, 1.5	0	1	2	0	1	1	2	2	0	1	0	0	0	0	2	0	0	1	1	0
Ebola virus (VHF)	0.0043	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enteric fever (typhoid or paratyphoid fever)	3.49	3.5, 4.5	2	8	4	3	2	4	3	1	5	6	1	8	4	11	2	4	7	4	5	3
Foodborne illness outbreak	9	6.0, 9.0	18	11	24	27	36	48	11	19	4	31	4	15	9	13	3	12	7	21	6	1
Haemolytic uraemic syndrome (HUS)	0.0476	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Listeriosis	1.61	2.0, 2.5	1	5	2	1	1	6	4	0	1	2	0	0	0	0	0	1	2	1	1	0
Malaria	89	69, 87	217	187	109	116	61	48	61	48	60	52	34	40	42	55	53	51	63	44	59	24
Marburg virus (VHF)	0.0043	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Measles	26	20, 32	44	35	35	42	45	61	48	72	71	52	46	44	41	64	91	60	70	80	82	53
Meningococcal disease	2.07	2.5, 3.0	4	5	4	0	3	2	3	2	6	3	3	5	3	2	3	2	6	3	6	5
Mpox	0.0563	1.0, 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Pertussis	19	19, 27	47	27	30	29	18	18	19	21	15	16	13	14	17	17	16	33	18	10	19	11
Plague	0.0043	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poliomyelitis	0.0087	NA, NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabies	0.61	1.5, 2.0	0	0	0	1	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0
Respiratory disease caused by a novel respiratory pathogen	9	3.0, 9.0	1	1	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0
Rubella	9	4.5, 6.5	16	28	15	13	10	18	12	38	45	32	49	12	23	12	29	26	27	31	50	14
Smallpox	0.0433	1.0, 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waterborne illness outbreak - undefined	0.21	1.0, 1.5	0	0	0	0	1	0	1	2	0	0	0	1	0	0	0	0	0	0	0	0
Yellow fever	0.0476	1.0, 1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

¹CI = Confidence Interval

Trends Plot

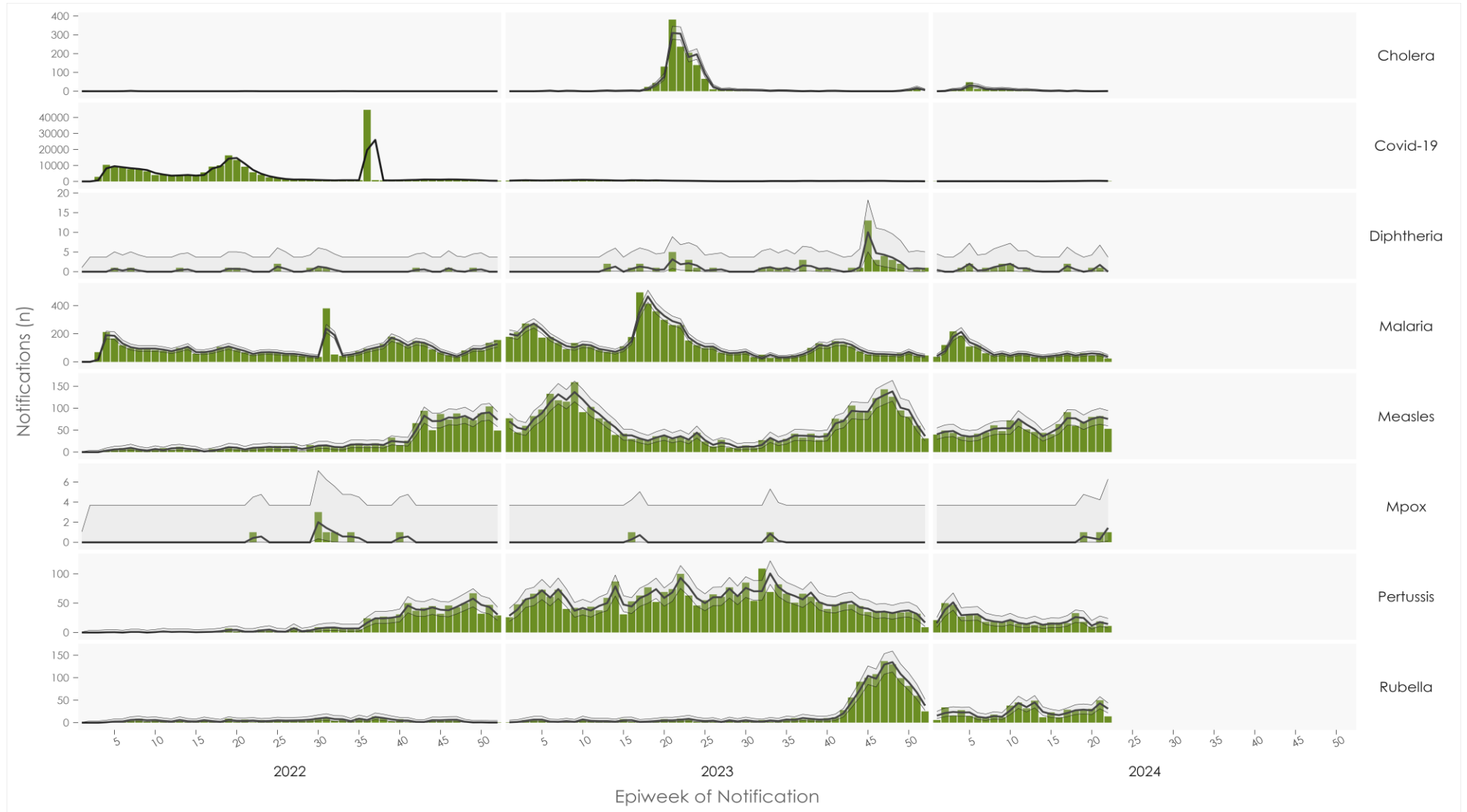


Figure 6: Trend of weekly number of all notifications for selected conditions reported to the NMC, in South Africa, January 2022-May 2024

END!