



NATIONAL PUBLIC HEALTH EMERGENCY OPERATION CENTER (PHEOC), ETHIOPIA

COVID-19 PANDEMIC PREPAREDNESS AND RESPONSE IN ETHIOPIA

WEEKLY BULLETIN

Epi-Week- 19 (May 10 – 16, 2021)

BULLETIN No: 55

Issue Date: May 24, 2021

I. HIGHLIGHTS

- A total of 31,965 laboratory samples were tested in the Epi-Week-19 bringing the total number of samples tested to 2,652,558.
- A total of 3,562 new confirmed COVID-19 cases and 108 COVID-19 related deaths were reported during the Epi-Week-19 bringing the total cases and death to 266,264 and 3,996 respectively.
- A total of 179,765 COVID-19 confirmed cases have been at Home Based Isolation and Care so far; 6,304 of these are enrolled in the Epi-Week-19.
- The number of COVID-19 confirmed cases, deaths due to COVID-19 and laboratory test positivity rate in Ethiopia have shown decrement; in contrary cumulative Case Fatality Rate has shown increment in the last consecutive weeks.
- COVID-19 responders celebrated the 1,442nd Eid al-Fitr at the National Public Health Emergency Operations Center.
- Launching of the revitalization of COVID-19 response was held in presence of regional top leadership by the leadership of Deputy Prime Minister and Minister of Foreign Affairs, H.E. Ato Demeke Mekonnen, to enhance the COVID-19 pandemic prevention and response activities nationwide.



Fig. 1: National leadership discussion on COVID-19 pandemic prevention and response, May 14, 2021

II. Subject in Focus:

a. COVID-19 plan revitalization ('Dagim Tikuret LeCOVID-19')

- The national COVID-19 preparedness and response plan revised. The revitalization mainly focuses on enhancing overall COVID-19 response via increasing community awareness through Risk Communication and Community Engagement and boosting detection capacity and improving critical care capacity.
- The revitalization plan is prepared nationally and regionally with the motto "Dagim Tikuret LeCOVID-19" under the leadership of Deputy Prime Ministry Office.
- In line with the revitalization plan regional support teams are deployed to regional Public Health Emergency Operation Centers and biweekly meeting with regional and national Public Health Emergency Operations Centers (PHEOC) COVID-19 Response Incident Management System is being conducted. The biweekly meeting agenda focuses on the overall COVID-19 response plan status, detection capacity, challenges (ongoing & predicted) and support area required (identifying resources on hand and gaps).

b. COVID-19 vaccination update

- Vaccines have been developed as a way to combat the spread of COVID-19.
- Vaccines typically require years of research and testing before reaching the clinic, but in 2020, scientists embarked on a race to produce safe and effective COVID-19 vaccines in record time. Researchers are currently testing 90 vaccines in clinical trials on humans, and 27 have reached the final stages of testing. At least 77 preclinical vaccines are under active investigation in animals¹.
- Currently, many countries are scaling up their vaccination efforts and there are varieties of brands produced by different drug manufacturers. China has the most number of citizens vaccinated globally followed by USA. Morocco leads the charge in Africa followed by Nigeria and Ethiopia. A total of 1,460,021 people have been vaccinated in Ethiopia as of 16 May 2021. Among these, 181,713 people are vaccinated in this week (Epi-week-19).
- In average 133 people among 10,000 individuals are vaccinated in Ethiopia.
- Among the COVID-19 vaccines approved for emergency use the AstraZeneca vaccine and Sinopharm vaccines are in use in Ethiopia.

¹ <https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html>

III. EPIDEMIOLOGICAL SITUATION

a. Global Situation

- Globally, over 5.3 million new cases are reported in the last week (Figure 2). This decrease is for the second consecutive week after the initial increase for ten consecutive weeks.
- More than 117 thousand new deaths are reported globally in the Epi-week-19.
- As of May 16, 2021, a total of 157,182,570 COVID-19 cases and 3,281,516 deaths (CFR=2.09%) have occurred globally. Of the total cases and deaths reported since the beginning of the outbreak, 5,339,387 cases and 117,593 deaths were reported during the Epi-Week-19.
- The United States of America (USA) reported the highest number of cases followed by India.
- In Africa, as of May 16, 2021, a total of 4,716,967 cases and 125,737 deaths were reported across the continent (CFR=2.67%). Of these 77,796 cases and 2,343 deaths were reported during the Epi-Week-19.
- In Africa, South Africa reported the highest number of cases followed by Morocco.
- Ethiopia reported the highest number of COVID-19 confirmed cases in East Africa. See the summary dashboard below.

Total Number of COVID-19 Confirmed Cases Globally

157,182,570

New Confirmed Cases_of Epi_Week Globally

5,339,387

Total Number of Deaths with COVID-19 Globally

3,281,516

New Deaths with COVID-19 of Epi_Week Globally

117,593

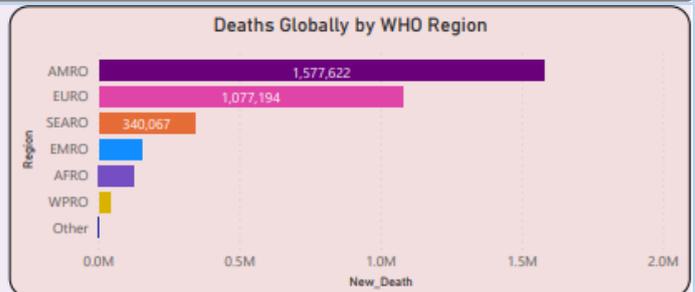
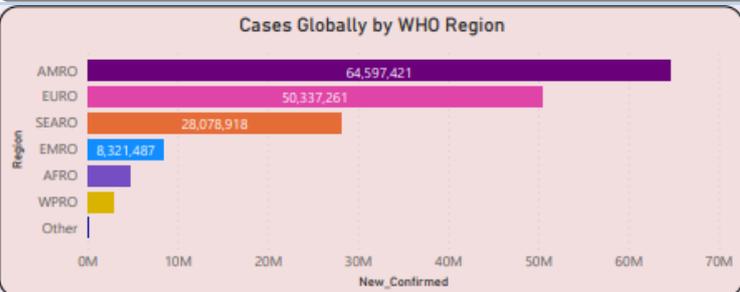
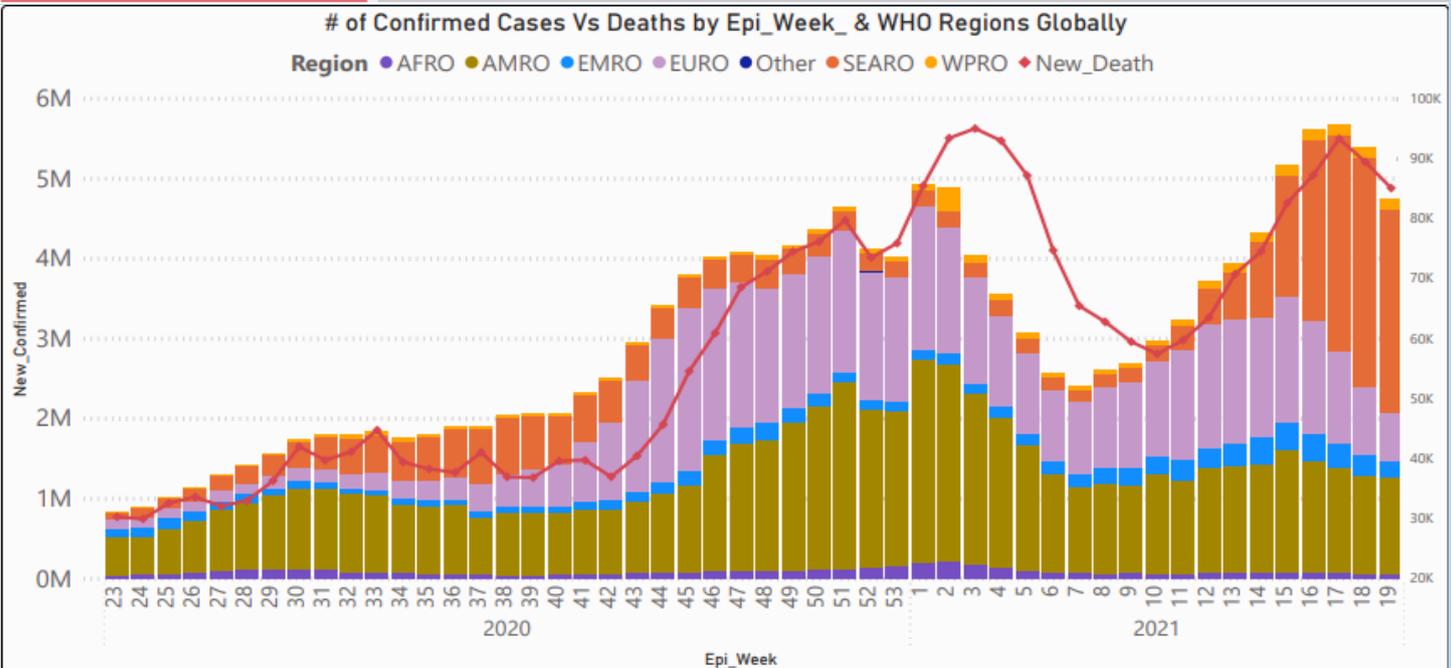
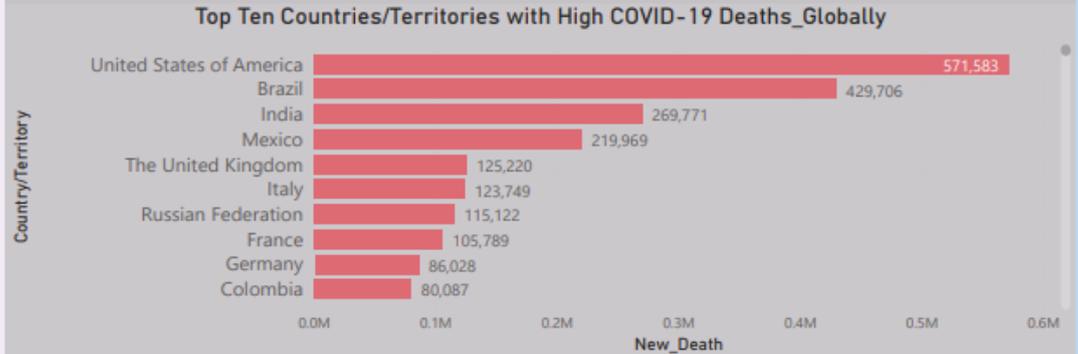
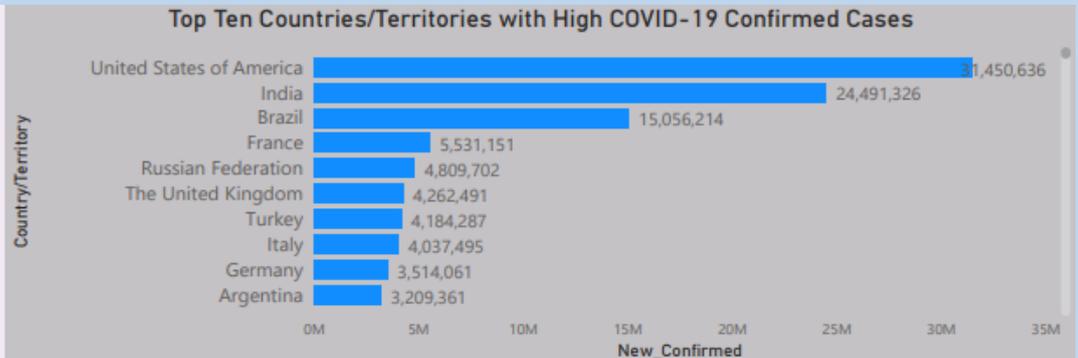


Fig. 2: COVID-19 Global Situation Update as of May 16, 2021 (Source: WHO)

Total Number of Cases Confirmed in Africa

4,716,967

New Confirmed Cases in Africa with COVID-19 of Epi_Week

77,796

New Cases in Last 7Days Per 100K Popn. in Africa

3310

Total Number of Deaths in Africa with COVID-19

125,737

New Deaths in Africa with COVID-19 in Epi_Week

2,343

Total Number of Cases Confirmed in Horn_Africa

495,443

New Cases in Horn_Africa in Epi_Week

7,473

Total Number of Deaths in Horn_Africa with COVID-19

9,686

New Deaths in Horn_Africa with COVID-19 in Epi_Week

292

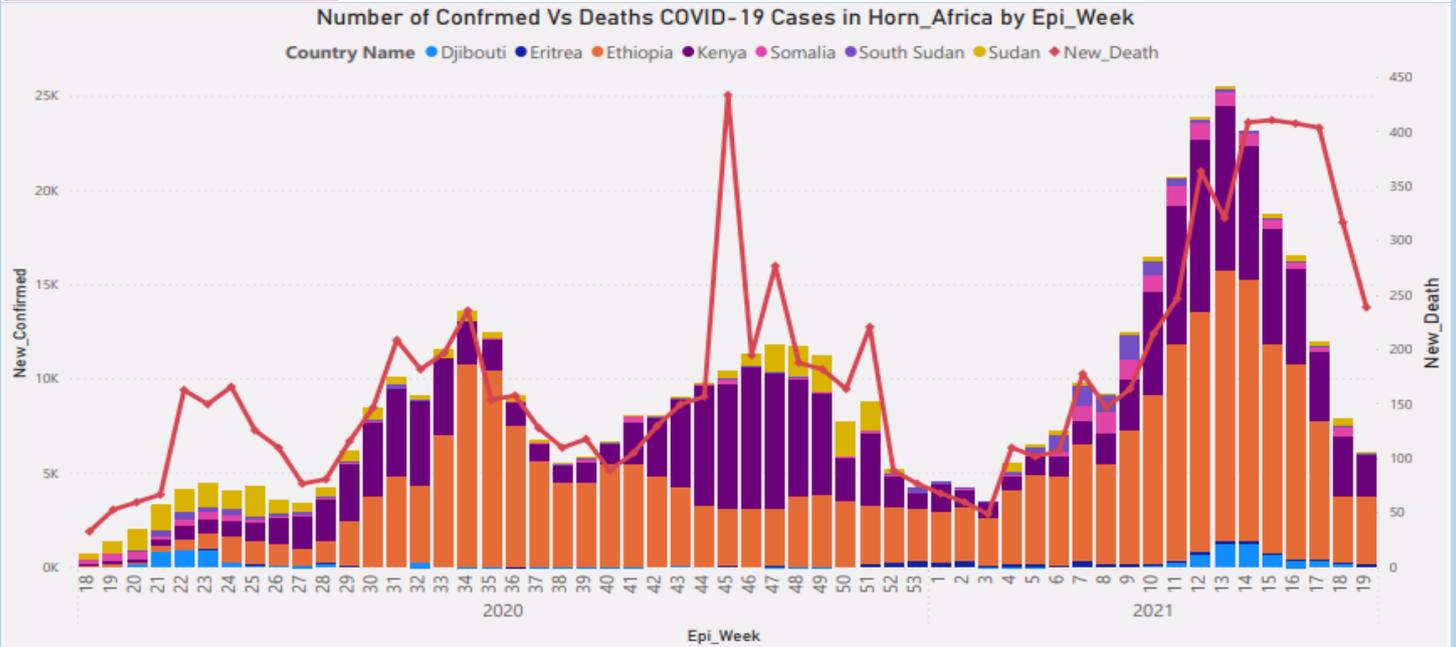
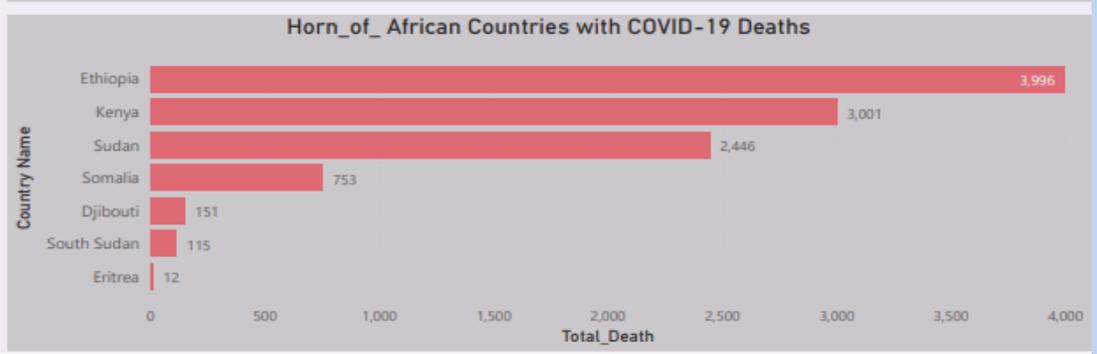
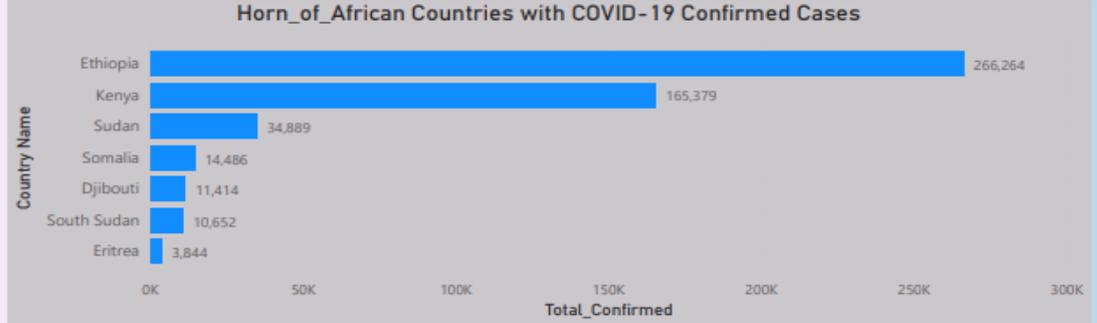
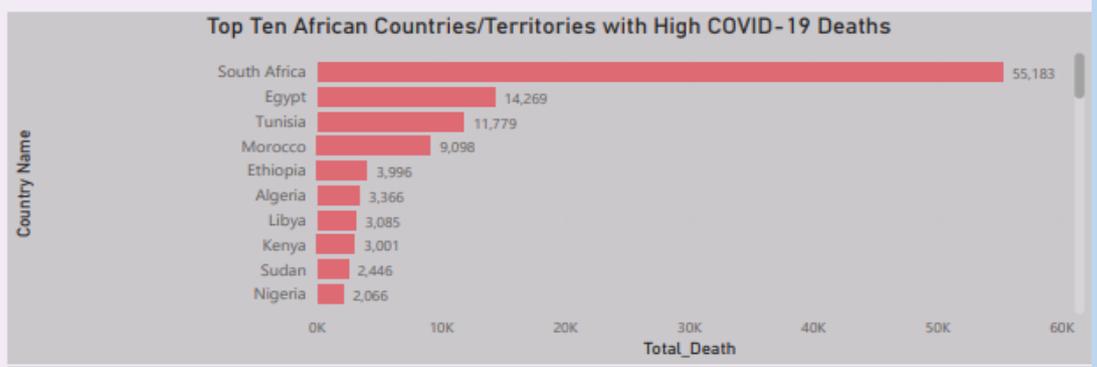
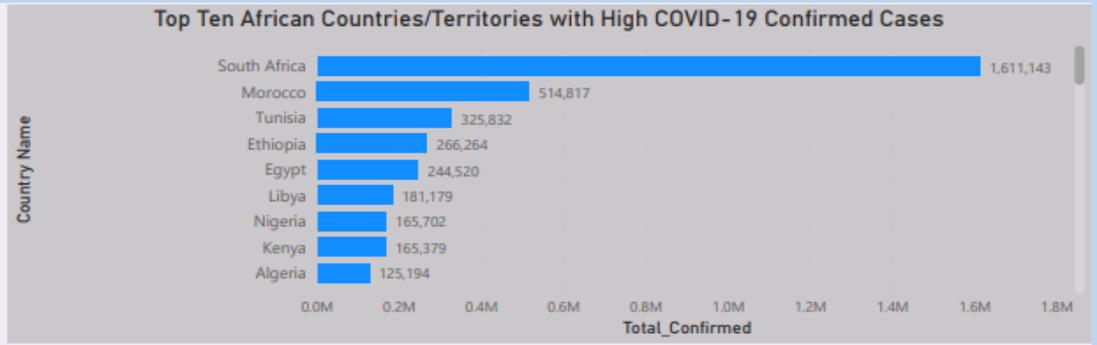


Fig. 3: COVID-19 Situation Update in Africa as of May 16, 2021 (Source: WHO)

b. National COVID-19 situation:

- As of May 16, 2021, a total of 266,264 confirmed COVID-19 cases and 3,996 deaths were recorded in the country with a case fatality rate of 1.50%. This puts Ethiopia in the fourth position by the number of confirmed cases and in the fifth position by the number of deaths due to COVID-19 in Africa.
- Three-thousand-five-hundred-sixty-two (3,562) newly confirmed COVID-19 cases and 108 COVID-19 related deaths were reported during the Epi-Week-19.
- In this week, there is an 18% decrease in the number of COVID-19 confirmed cases (for the sixth consecutive week) and the number of COVID-19 related deaths have decreased by 33% (for the fifth consecutive week).
- The number of COVID-19 confirmed cases, deaths due to COVID-19 and laboratory test positivity rate in Ethiopia have shown decrement; in contrary cumulative Case Fatality Rate has shown increment in the last consecutive weeks. Besides the decrease in the number of COVID-19 samples tests performed in the country, other reasons can also be hypothesized as causes for the decrement in the overall COVID-19 figures. Actual decrease in the prevalence and incidence of the disease, already infected and recovered community, change in population tested and methods, increased adherence to PHSM due to strengthened law enforcement may be some of the reasons which can be hypothesized for further study to know the exact reasons for the decrement in COVID-19 confirmed cases, deaths due to COVID-19 and laboratory test positivity rate.
- For detail, see the summary dashboard below.

Table 1: Summary of National COVID-19 situation in the Epi-Week-19 of 2021

Regions	New_Testeds	New_Case	New_HF_Admission	New_Deaths	Positivity Rate	# of Recovery
Addis Ababa	24368	2185	385	60	8.9	7385
SNNPR	2337	218	32	3	10.3	236
Oromia	1736	524	81	27	32.7	1303
Amhara	1252	275	35	8	22.4	161
Tigray	522	154	0	0	28.3	0
Benshangul	407	49	20	1	16.3	62
Sidama	393	74	23	2	17.9	55
Harari	326	35	6	2	9.3	127
Afar	306	4	1	0	2.0	28
Dire Dawa	255	36	14	5	20.2	88
Somali	63	8	7	0	6.7	91
Gambella	0	0	0	0		0
Total	31965	3562	604	108	**** 16.0	9536

**** Positivity Rate is the Weighted Averages of Regional Distributions of Rates

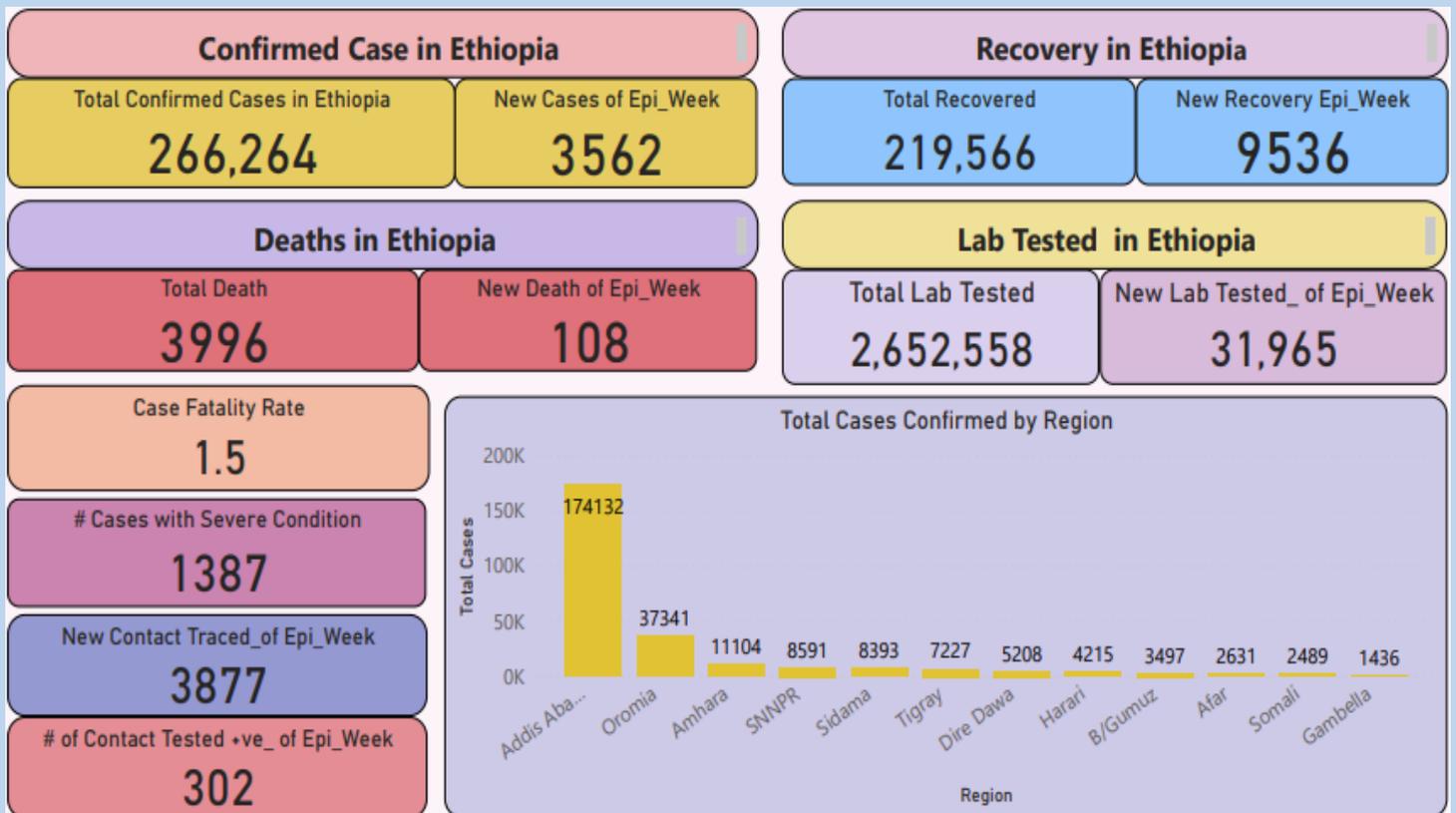


Fig. 4: Weekly summary of the COVID-19 situation in Ethiopia as of May 16, 2021, Ethiopia

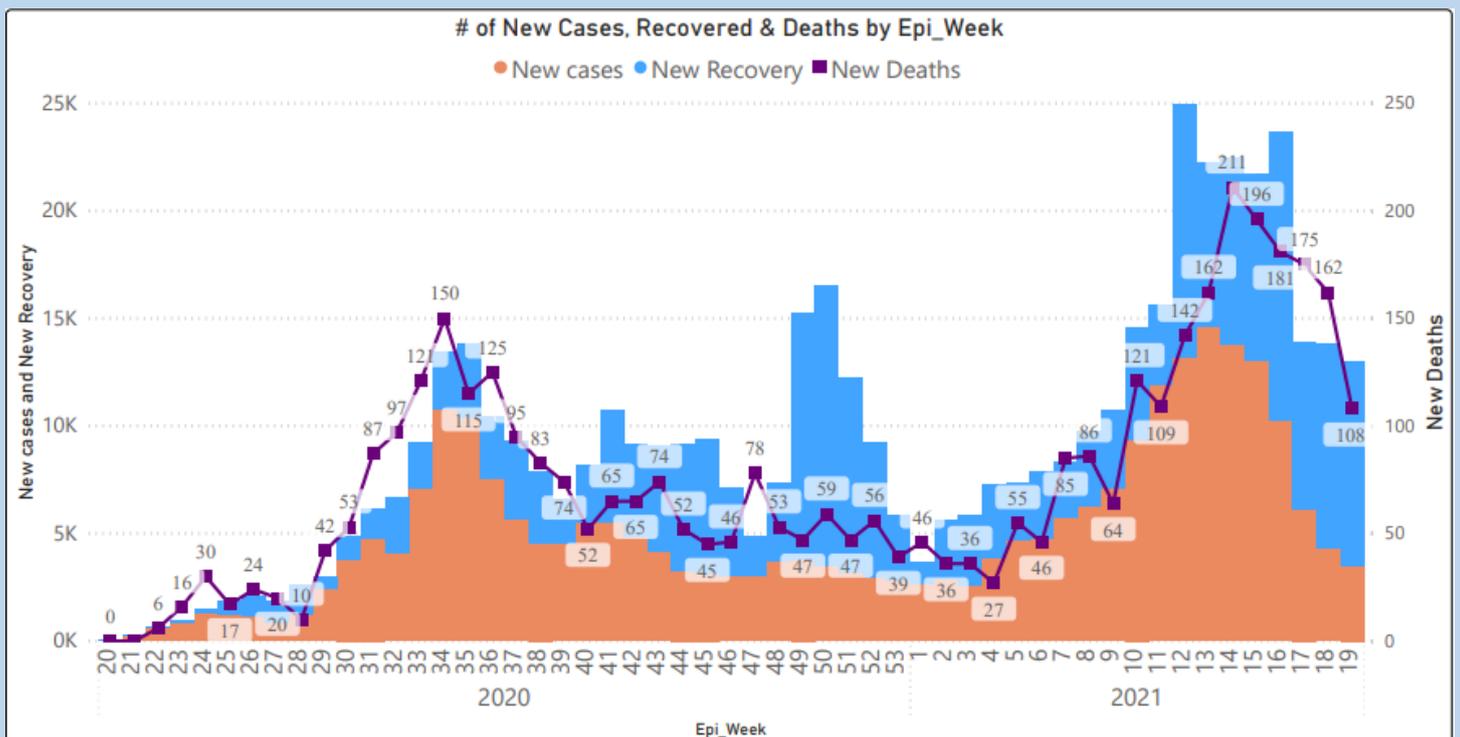


Fig. 5: COVID-19 confirmed cases, recovery and death by Epi-Week as of May 16, 2021, Ethiopia

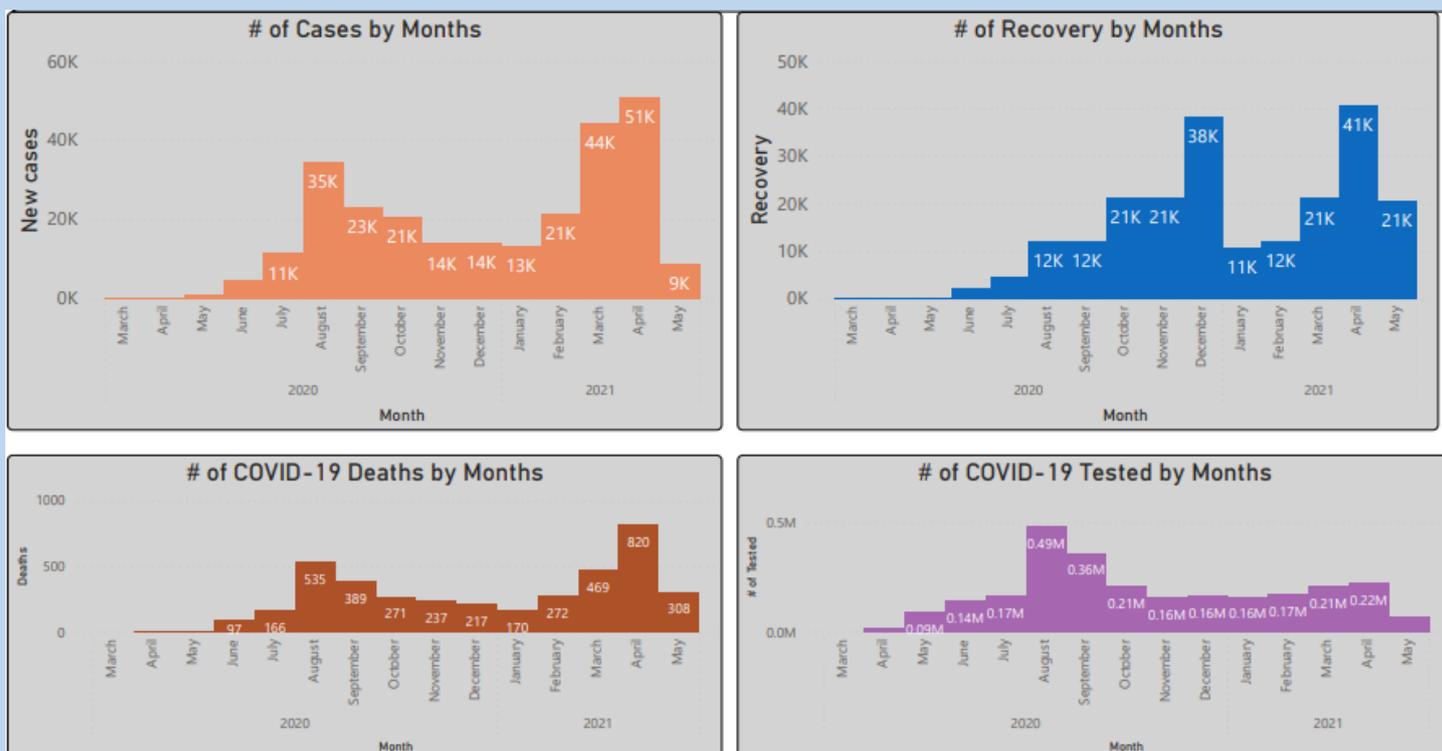


Fig. 6: Summary of monthly trend of COVID-19 situation in Ethiopia as of May 16, 2021.

c. Other Epi-Surveillance Related Activities

There is ongoing travelers' health screening at point of entries (POEs), follow-up of international travelers, rumor collection, verification, investigation and information provision via toll free call center, active case detection by house to house search, contact listing, tracing and follow-up of persons who had contact with confirmed cases. There is also laboratory investigation of suspected cases, contacts of confirmed cases, SARI/pneumonia cases and community members, surveillance and assessment in school and congregated setting communities.

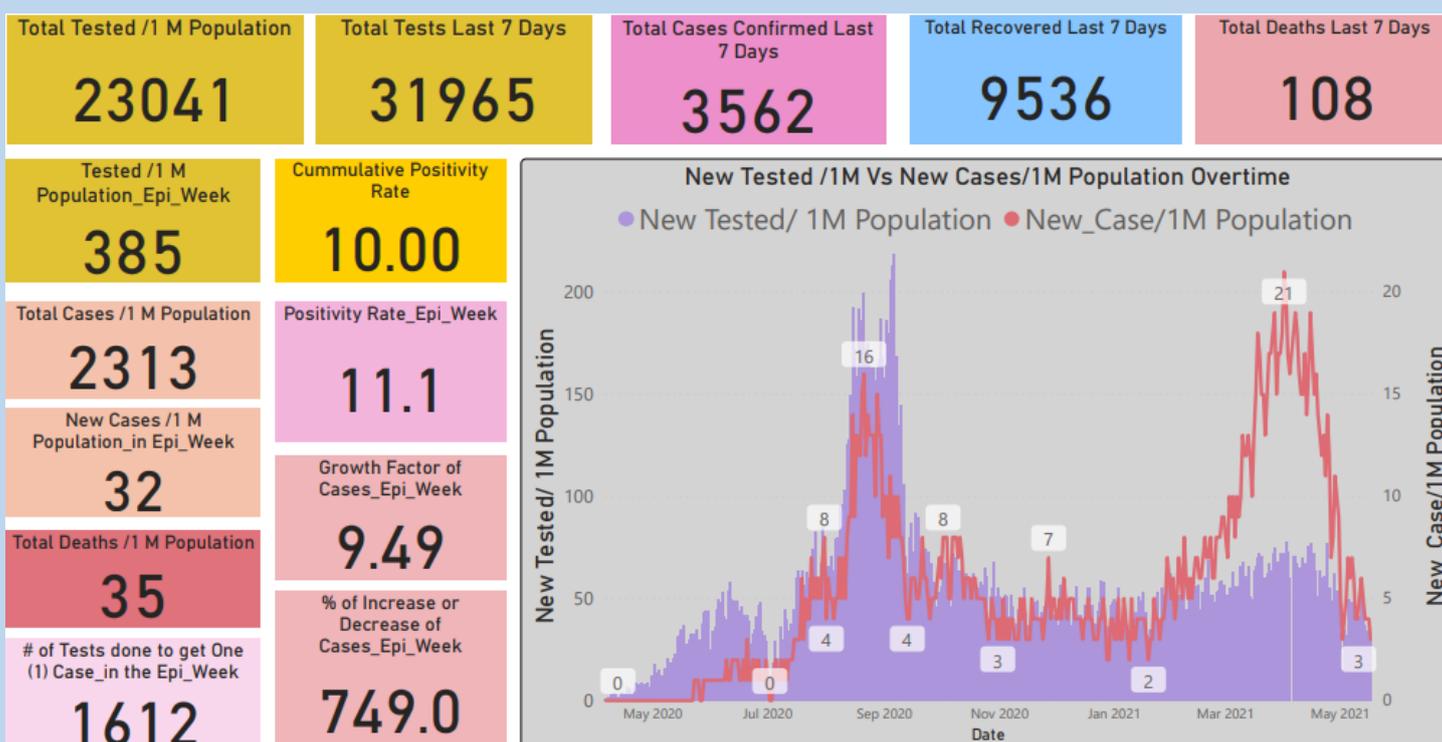
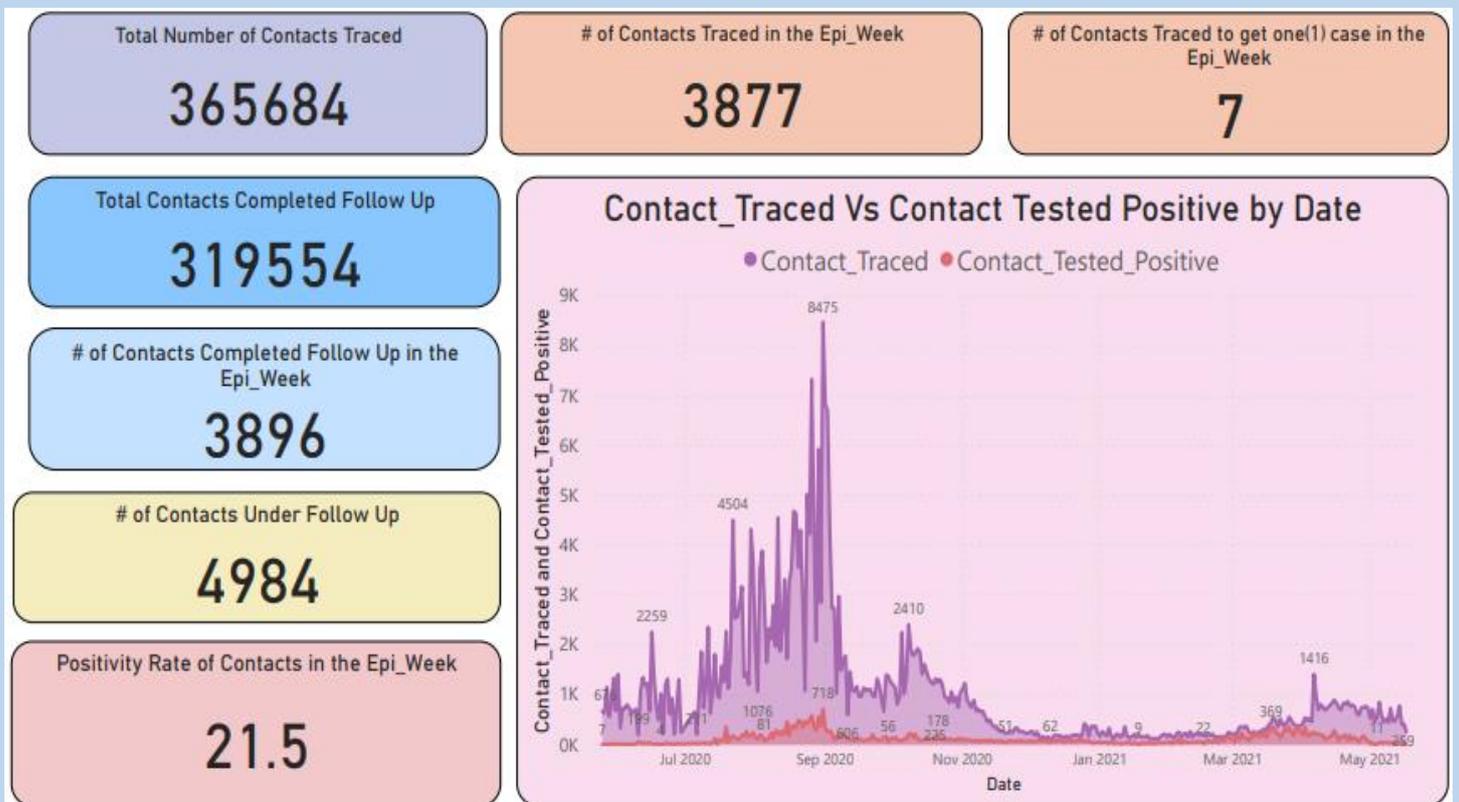


Fig. 7: Summary of COVID-19 confirmed cases in Ethiopia as of May 16, 2021.

i. Contact tracing and follow-up:

- Contact tracing is a key strategy for interrupting chains of transmission of SARS-CoV-2 and reducing COVID-19-associated mortality and should not be abandoned.
- As of May 16, 2021:
 - A total of 365,684 contacts of confirmed cases have been identified. Of these, 3,877 contacts were identified in the Epi-Week-19.
 - Of total contacts, 319,554 (87.38%) have completed 14 days follow-up, while 4,984 contacts are still on follow-up.
- Overall, 41,561 (11.36%) of the contacts (symptomatic plus asymptomatic) have been tested positive.
- Contacts of the confirmed cases contributed for the 15.61% of the total cases. However, when there is transmission of the disease at community level, it is known that an individual acquires the disease from unknown contacts.



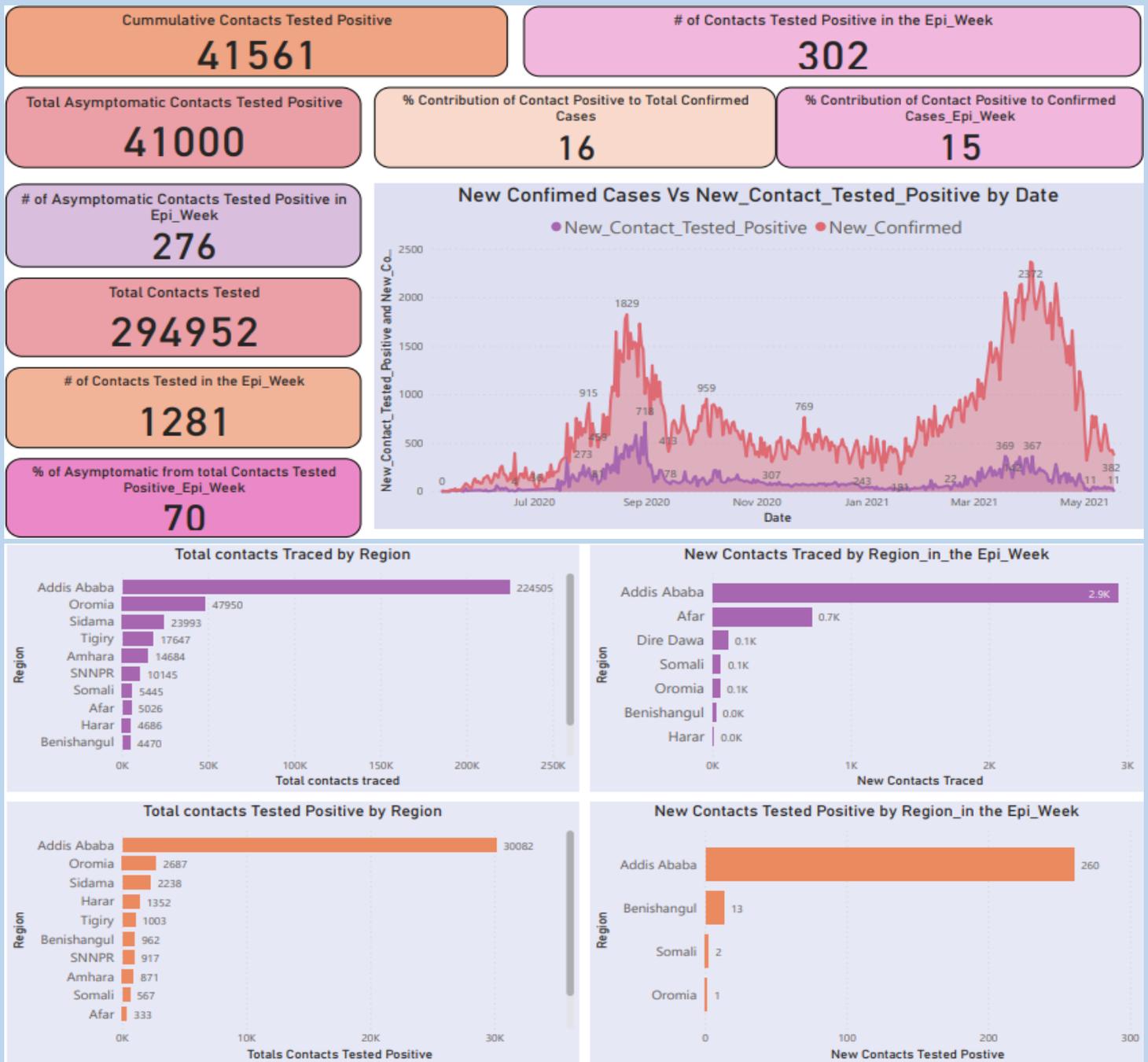


Fig. 8: Summary of COVID-19 contact tracing as of May 16, 2021, Ethiopia.

ii. Rumors collection and verification from all sources

- COVID-19 related rumors are received from different sources: Call centers, Health facilities, Contact follow up, Self-report, Travelers follow up, Point of Entry (PoE), Community surveillance and Special Settings.
- As of May 16, 2021:
 - 390,416 rumors/alerts have been received and investigated. Of these, 550 rumors were reported in the Epi-Week-19.
 - 278,500 (71.33%) of the rumors/alerts have fulfilled the suspected case definition.
- 19,822 COVID-19 related calls are received through call centers in this Epi-week.

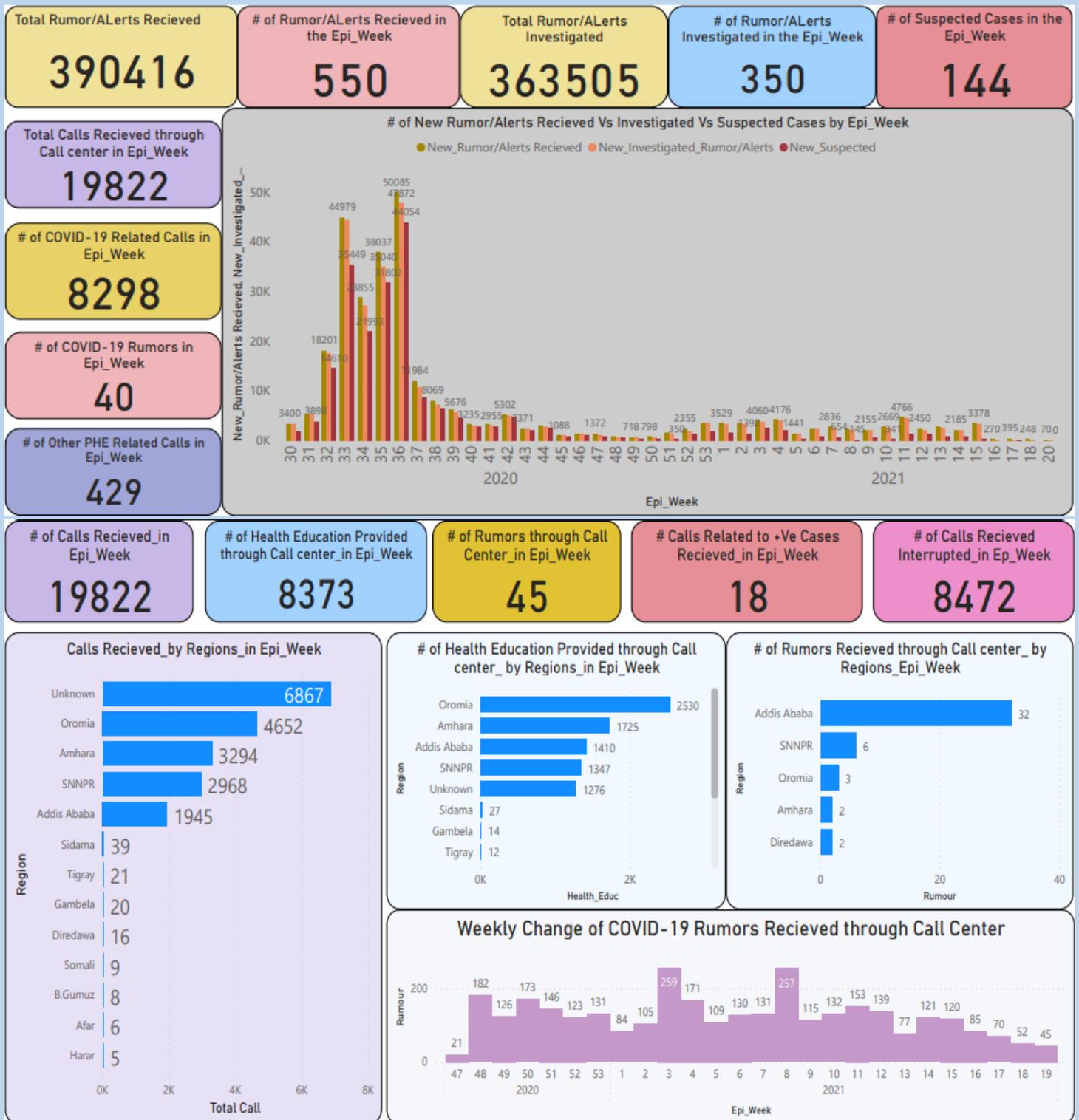


Fig. 9: Summary of COVID-19 rumor/alert investigation as of May 16, 2021, Ethiopia.

iii. Point of entry and Quarantine related activities

- Since the start of the outbreak, 2,146,882 passengers have been screened at the Point of Entries of Ethiopia and 686,495 (31.98%) of them were screened at Bole International Airport.
- Of the total passengers screened, 33,487 were screened for COVID-19 in the Epi-Week-19.
- As of May 16, 2021, among the passengers coming with COVID-19 PCR test result certificates, 313,619 passengers (7,748 in Epi-week-19) had PCR negative certificates while 45 passengers with PCR positive certificates were identified during health screening. A total of 86 SARS-COV-2 positive cases have been detected after arrival laboratory test.

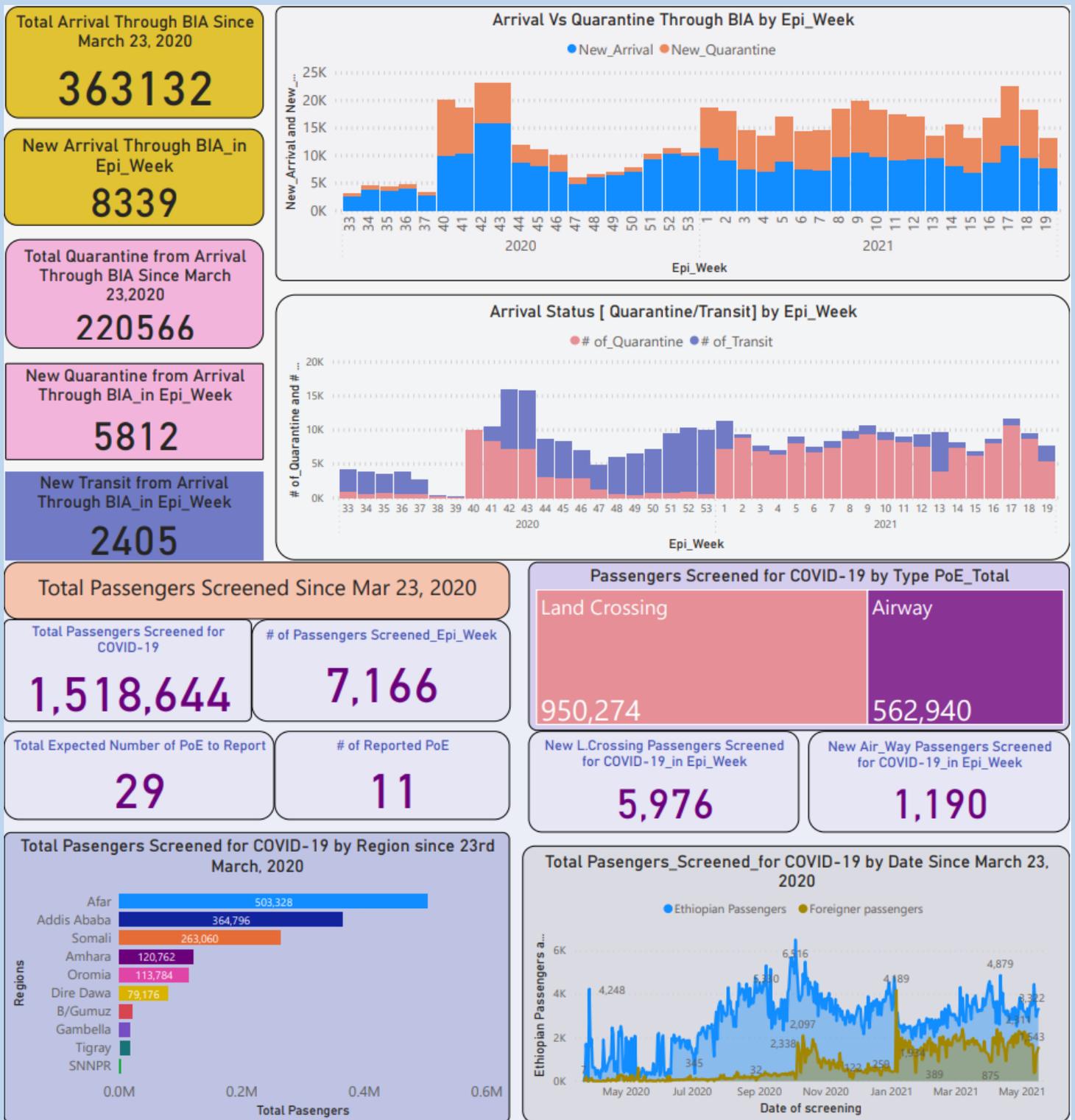
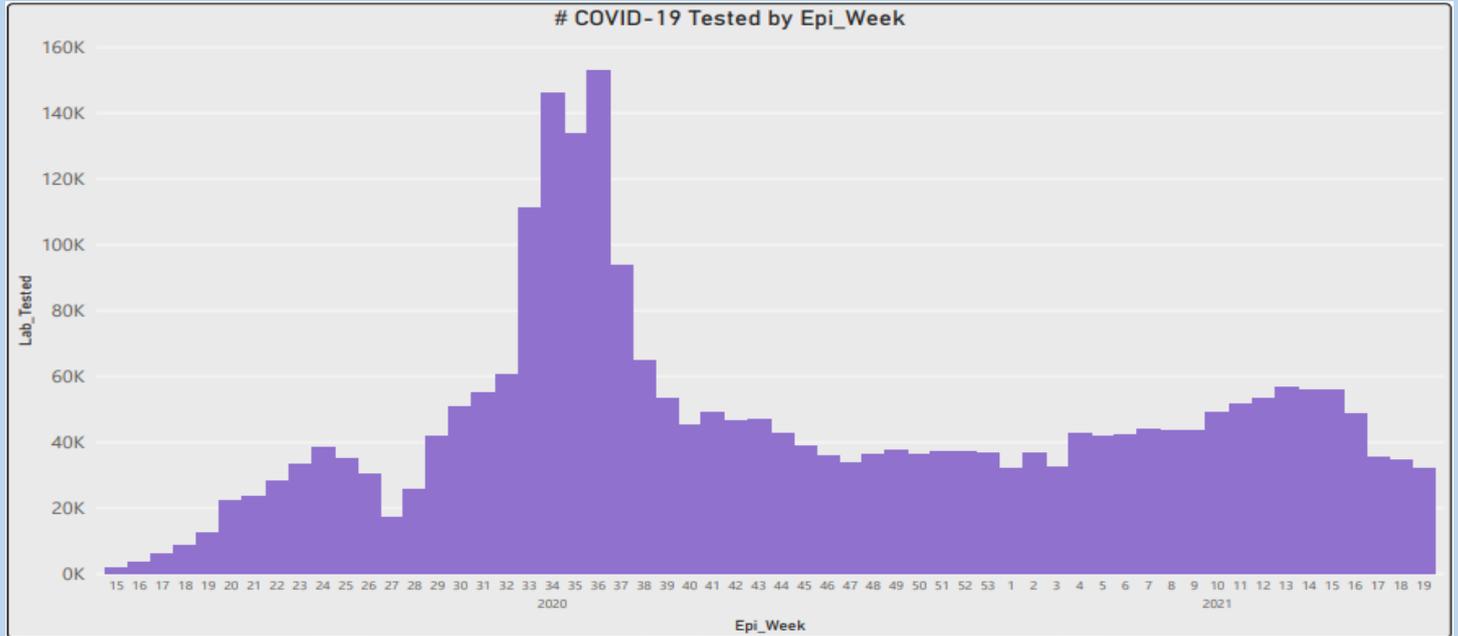


Fig. 10: Summary of Passengers screening for COVID-19 as of May 16, 2021, Ethiopia.

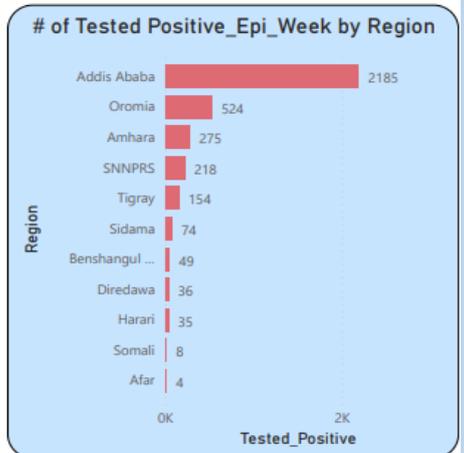
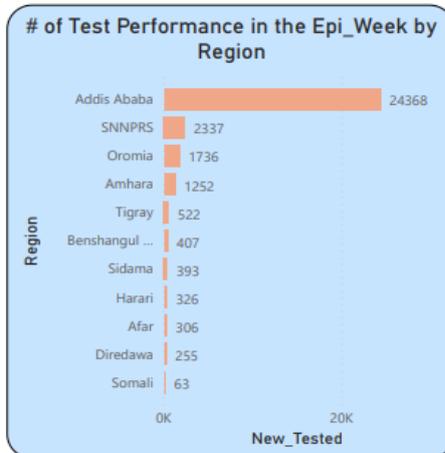
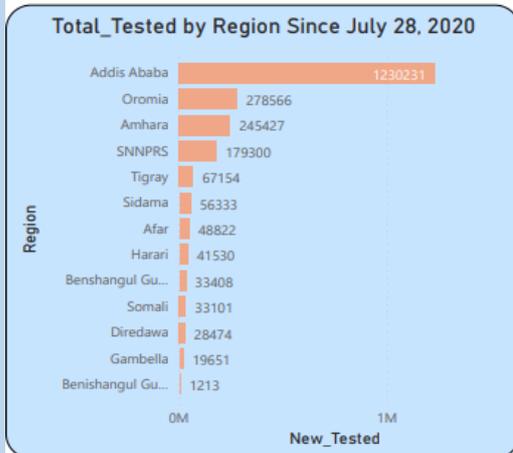
IV. Laboratory related activities

- As of 16 May 2021, a total of 2,652,558 samples have been tested for COVID-19 by laboratories across the country.
- 31,965 laboratory tests were processed during the Epi-Week-19 which is a 7% decrease compared to number of tests performed in the previous week.
- The laboratory test positivity rate for the Epi-Week-19 is 11.14%, which is lower than that of the preceding week (12.51%).

- Oromia, Tigray, Amhara, Dire Dawa, Sidama and Benishangul Gumuz have reported positivity rates higher than the national weighted average while the positivity rate in Addis Ababa has showed a decrease (figure 11 below). This shows that the COVID-19 epidemic has got high spread to regions.



Total Tested 2652558	# of New Tested in the Epi_Week 31965	Total Tested / 1M Population 23041	New Tested / 1M Population of Ep_Week 385
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Region/City Admn	New_Tested	Tested_Positive	New_Deaths	Positivity_Rate
Addis Ababa	24368	2185	60	8.97
SNNPRS	2337	218	3	10.26
Oromia	1736	524	29	32.53
Amhara	1252	275	10	22.53
Tigray	522	154	0	28.30
Benshangul Gumz	407	49	1	16.27
Sidama	393	74	3	17.61
Harari	326	35	2	9.21
Afar	306	4	0	2.00
Diredawa	255	36	5	20.10
Somali	63	8	0	6.72
Gambella	0	0	0	
Total	31965	3562	113	15.92

***** Positivity Rate is weighted average of Regional Distn of Rates

Fig. 11: Summary of COVID-19 laboratory testing as of March May 16, 2021, Ethiopia.

V. Case Management and Facility Readiness

a. COVID-19 treatment center

- There were total of 9,536 newly recovered COVID-19 cases during the Epi-Week-19, bringing the total number of recovered cases to 219,566 (both from COVID-19 treatment center and from HBIC).
- The highest number of daily cases in severe condition reported in this week is 739.

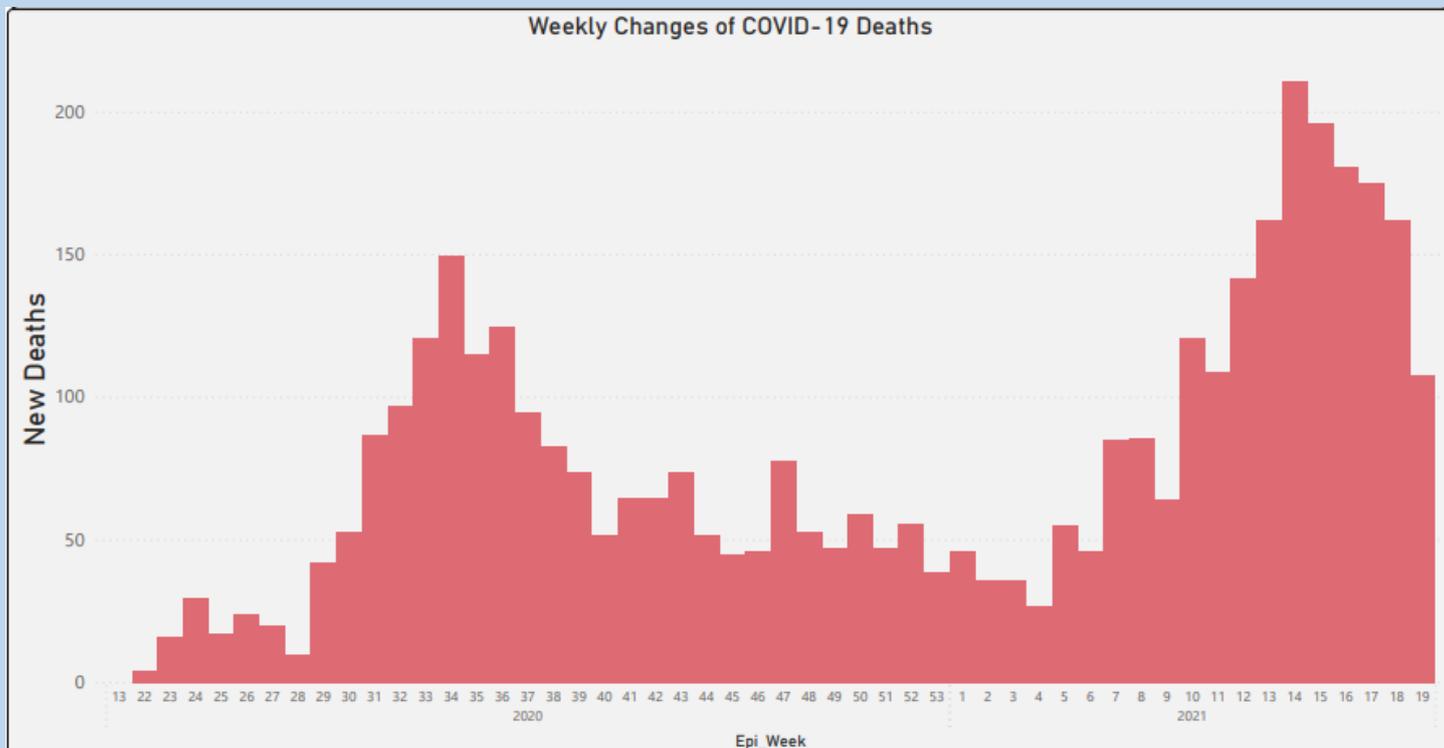


Fig. 12: Weekly trend of COVID-19 related death in Ethiopia, as of May 16, 2021.

- Most of the confirmed cases admitted to treatment centers are in the age group of 15 to 54 while most of the COVID-19 related deaths occurred in age greater 64. This indicates that as the patient becomes elder there comes high probability of death due to COVID-19 (see figure 13 below).

Age_Group	# of Confirmed cases admitted to TC	# of COVID-19 patients discharged from Facility	# of Facility Deaths
65 - 74	4197	2917	954
55 - 64	5474	4358	812
75 - 84	1940	1231	539
45 - 54	6524	5811	487
35 - 44	9122	8513	387
85 +	723	361	327
25 - 34	16304	15795	259
15 - 24	12300	12025	126
5 - 14	1270	1203	37
0 - 4	832	762	36
Total	58686	52976	3964

Fig. 13: Summary of COVID-19 patients' update based on age group as of May 16, 2021, Ethiopia.

b. Home Based Isolation and Care (HBIC):

- So far, 179,765 COVID-19 confirmed cases have been on HBIC. Of them 166,687 (92.72%) have recovered and 32 (0.018%) died.
- Of these, 6,304 cases have been enrolled to HBIC and 8,846 cases have recovered in the Epi-Week-19.
- As of May 16, 2021, there are 14,350 cases on HBIC.
- So far, 2,094 (29 of them in the Epi-Week-19) of the cases have been transferred from treatment centers to HBIC after improvement.
- So far, 822 (11 of them in the Epi-week-19) of the cases have been transferred from HBIC to treatment centers for better care.

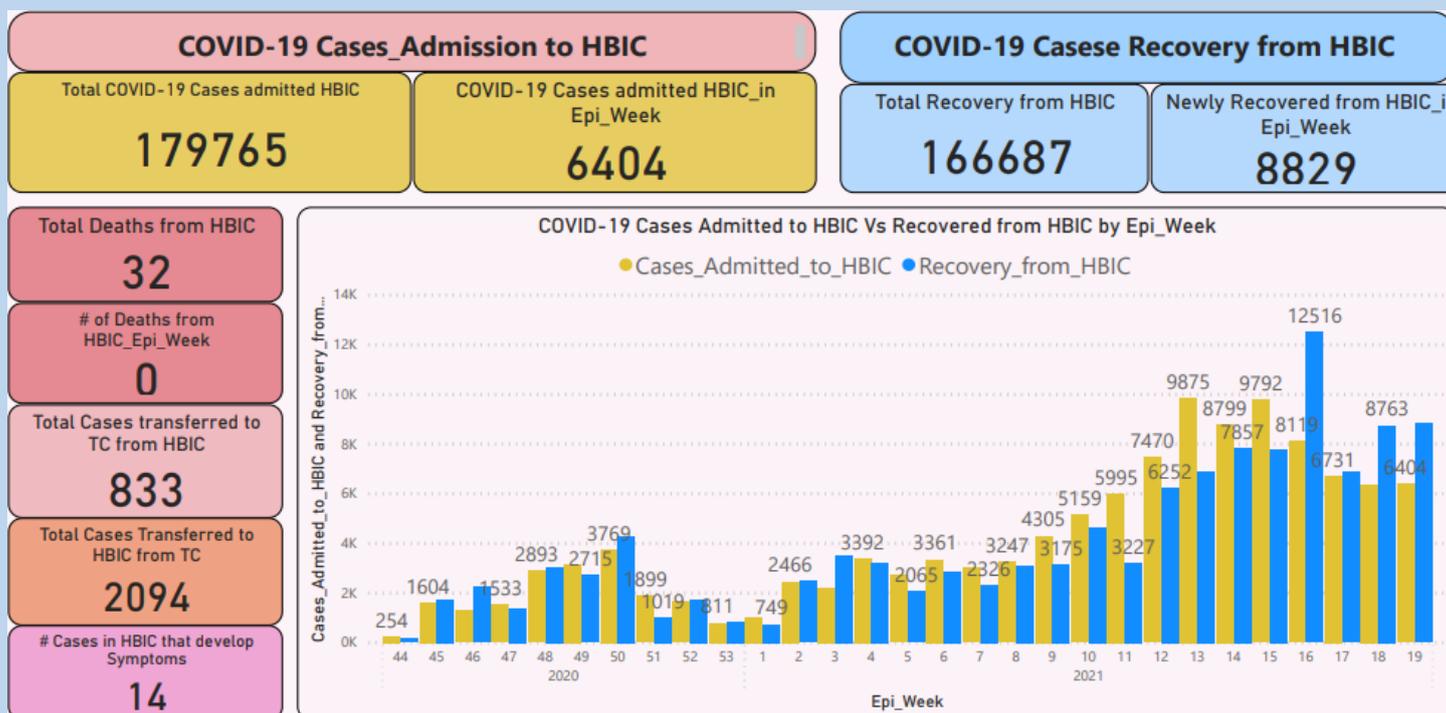


Fig. 14: Summary of COVID-19 Home Based Isolation and Care in Ethiopia, as of May 16, 2021.

VI. Coordination and Leadership

- The national PHEOC is collaboratively working with stakeholders: government agencies, partner organizations, UN agencies, embassies, hospitals, Industrial parks and others.
- Morning briefing of IMS is being conducted every day by core IMS staffs and key partners' representatives.
- Weekly leadership and strategic virtual meeting, chaired by the H.E MOH Minster, is being conducted to oversee and guide the response efforts.
- Weekly joint meeting is started (every Monday and Thursday) among the national and regional Emergency Operations Centers COVID-19 response IMS to evaluate weekly situations and challenges faced.
- Discussion was held on May 14, 2021 with Deputy Prime Minister and Minister of Foreign Affairs, H.E Ato Demeke Mekonnen, to strengthen the COVID-19 pandemic prevention and response work nationwide. Deputy Prime Minister and Minister of Foreign Affairs, H.E Ato Demeke Mekonnen, met with Ministers, Regional Health Bureau officials, members of the National COVID-19 Response at Public Health Emergency

Operations Center and members of the National COVID-19 response Task Force. The Minister of Health, H.E Dr. Lia Tadesse, highlighted the issues that need to be addressed in the discussion:

- Halting transmission of COVID-19 and reducing mortality rates;
 - Strengthening multi-sectoral response,
 - Increase access to COVID-19 cases quality care;
 - Conducting integrated awareness and law enforcement activities; and
 - Increasing detection capacity and vaccination coverage.
- COVID-19 responders celebrated the 1,442nd Eid al-Fitr at the National Public Health Emergency Operations Center. The Ethiopian Public Health Institute's Deputy Director and COVID-19 response Incident Manager, Mr. Aschalew Abayneh; COVID-19 response Deputy Incident Manager, Mr. Zewdu Assefa and other coordinators and team members have attended the celebration. Mr. Aschalew Abayneh opened the program by conveying a message of happy Eid al-Fitr. He also expressed his gratitude for those who have been working relentlessly on COVID-19 prevention and control.



Fig. 15: COVID-19 responders celebrating the 1,442nd Eid al-Fitr at the National PHEOC, May 13, 2021

VII. Challenges and Way Forward

a. Challenges

- Happenings of super spreading events-Mass gatherings with poor physical distancing and facemask use which exacerbates the spread of COVID-19.
- Poor adherence to the public health and social measures by public and community and political leaders.
- Poor attention given to COVID-19 at all levels by all responsible bodies in particular at subnational level.
- Weak law enforcement efforts to enhance adherence to COVID-19 prevention and control measures.
- Low stock status of personal protective equipment, supplies and logistics in particular laboratory supplies.
- COVID-19 vaccine related misinformation and hesitancy.
- Low utilization of Antigen RDT kits by facilities despite distribution to all regions and capacity building activities

b. Way Forward

- Enhancing law enforcement to enhance public health and social measures by all responsible bodies.
- Continuing the COVID-19 vaccination.
- Genomic surveillance strengthening and networking.
- COVID-19 preparedness and response plan revision at subnational level.
- Intensify risk communication and community engagement activities.
- Strengthened collaboration and coordination with key stakeholders and partners.
- Conduct intensive testing of high-risk population group and contacts of confirmed cases for COVID-19.
- Enhance technical support, coordination and timely and accurate information sharing at all levels.
- Enhance active surveillance for COVID-19 such as house-to-house case search and detection in the community.
- Intensification of a capacity building trainings and orientation including through virtual/online platforms.
- Strengthen and sustain other essential health services besides COVID-19.
- Follow up and performance report on Antigen Rapid Diagnostic Test Kits from regional COVID-19 testing sites.

VIII. COVID-19 Related News:

- G7 Urged To Donate Excess COVID Vaccines To Global Sharing Scheme. The head of UNICEF, the United Nations children's agency, has asked G7 countries to donate excess supplies of COVID-19 vaccines to the global COVAX sharing scheme as an emergency measure to address a severe shortfall following a curb on exports from India.: <https://www.fanabc.com/english/g7-urged-to-donate-excess-covid-vaccines-to-global-sharing-scheme/>
- Taiwan's government has imposed its toughest restrictions so far, as the island tries to battle a spike in Covid-19 cases. The authorities are shutting down cinemas and entertainment venues until 28 May, while limiting gatherings to five indoors and 10 outdoors. President Tsai Ing-wen urged the public not to panic-buy basic necessities. Taiwan - which has so far survived the pandemic almost unscathed - on Sunday reported 207 new infections. The island of 23 million people has recorded 1,682 infections and 12 Covid-related deaths since the start of the pandemic.: <https://www.bbc.com/news/world-asia-57135647>
- America's mask mandate is gone -- for the fully vaccinated. The United States' health authority has lifted the mask mandate, announcing on Thursday that fully vaccinated people no longer need to wear face coverings indoors or out. You could almost hear a collective sigh of relief across America, which appears to have truly turned a corner after enduring the most coronavirus cases and deaths of any country in the world.: <https://edition.cnn.com/2021/05/14/world/coronavirus-newsletter-intl-05-14-21/index.html>
- Singapore warns children are susceptible to new strains of coronavirus as schools prepare to shut. Singapore has warned that new coronavirus variants, such as the one first detected in India, are affecting more children than past strains, as the city-state prepares to shut most schools from this week. All primary, secondary and junior colleges will shift to full home-based learning from Wednesday until the end of the school term on May 28.: <https://www.abc.net.au/news/2021-05-17/singapore-warns-children-susceptible-to-covid-indian-variant/100144908>

IX. Public Health Policy Recommendation

Advice for the Public:

- For any individual confirmed to have COVID-19 and who is candidate for Home Based Isolation and Care:
 - Properly isolate from other family members.
 - Take full responsibility in prevention of transmission
 - Strictly adhere to the National Directive of Home-Based Isolation& Care.
 - Provide reliable information during regular follow up either by phone or home visit.
 - Report to nearest health facilities/follow up team in case of any emergency, appearance of new symptoms or worsening of existing symptoms.
- It is important to be informed of the situation and act appropriately to protect yourself and your family.
 - Wash hands frequently
 - Don't touch your mouth, nose or eye by unwashed hands
 - Keep physical distancing; avoid mass gathering and shaking hands.
- For most people, COVID-19 infection will cause mild illness however, it can make some people very ill and, in some people, it can be fatal.

- Older people, and those with pre-existing medical conditions (such as cardiovascular disease, chronic respiratory disease or diabetes) are at risk for severe disease.
- If anybody had contact with a COVID-19 confirmed patient, he/she should call 8335 or 952 or report to regional toll-free lines or to the nearby health facilities.

National/Regional official websites, social media pages and toll-free hotline for COVID-19 information

MOH/EPHI/Region	Facebook page	Toll-free hotline
Ethiopian Public Health Institute Main Website	https://www.ephi.gov.et/	8335/952
Ethiopian Public Health Institute COVID-19 Website	https://covid19.ephi.gov.et/	
Ethiopian Public Health Institute Facebook Page	https://www.facebook.com/ephipage/	
Ethiopian Public Health Institute Twitter Page	https://twitter.com/EPHIethiopia	
Ethiopian Public Health Institute Telegram Channel	https://t.me/EthPHI	
Ethiopian Public Health Institute YouTube Channel	https://www.youtube.com/channel/UCvvTzeY-IJiQfEFBULH9Mkw	
Ministry of Health, Ethiopia Website	www.moh.gov.et	952
Ministry of Health, Ethiopia Facebook Page	https://www.facebook.com/EthiopiaFMoH/	
Afar Regional Health Bureau	https://www.facebook.com/afarrhb.org/	6220
Amhara Regional Health Bureau	https://www.facebook.com/Amhara-Healthbureau-682065755146948/	6981
Benishangul Gumuz Regional Health Bureau	https://www.facebook.com/Benishangul-Gumuz-Health-Bureau-1676282159265517/	6016
Gambela Regional Health Bureau	https://fb.me/gambellaregionhealthbureau	6184
Harari Regional Health Bureau	https://www.facebook.com/Harari-Regional-Health-Bureau-1464182130355007/	6864
Oromia Regional Health Bureau	https://www.facebook.com/OromiaHealth/	6955
Somali Regional Health Bureau	https://www.facebook.com/srhbdotcom/...	6599
SNNP Regional Health Bureau	https://www.facebook.com/snnprhealthbureau/?ref=br_rs	6929
Tigray Regional Health Bureau	https://www.facebook.com/tigrayrhb/	6244
Dire Dawa city Administration Health Bureau	https://www.facebook.com/Dire-Dawa-Administration-Health-Bureau-1371606266279524/	6407
Addis Ababa City Administration Health Bureau	https://www.facebook.com/aahb.gov.et/	6406

COVID-19 updates and sources of evidence:

Source	Link
WHO Coronavirus (COVID-19) dashboard	https://covid19.who.int/
Africa CDC Dashboard, COVID-19 Surveillance Dashboard	https://au.int/en/covid19
WHO COVID-19 daily situation reports	https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports
WHO Academy mobile learning app for health workers, COVID-19 information	Android- https://play.google.com/store/apps/details?id=org.who.WHOA Apple- https://apps.apple.com/us/app/who-academy/id1506019873

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Call-Centers
FOR MORE INFO and
ALERT NOTIFICATION on
COVID-19



The above presented Quick Reader (QR) code takes you to a portal that you can access updates and all COVID-19 related information available (<https://www.ephi.gov.et/index.php/public-health-emergency/novel-corona-virus-update>)

DISCLAIMER

This weekly bulletin is produced based on figures pulled from official releases of the World Health Organization and activities and reports of all the sections under the Incident management System.

This Weekly Bulletin series of publications is published by the Ethiopian public health Institute (EPHI), Public Health Emergency Operation Center (PHEOC). The aim of this bulletin is to inform decision makers within the Institute and FMOH, UN agencies and NGOs about COVID-19 preparedness and response activities. All interested health and other professionals can get this bulletin at the Institute website; www.ephi.gov.et

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