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MINISTRY OF HEALTH-ETHIOPIA
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HEALTHIER CITIZENS FOR PROSPEROUS NATION



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ETHIOPIAN PUBLIC HEALTH INSTITUTE

PUBLIC HEALTH EMERGENCY OPERATIONS CENTER (PHEOC), ETHIOPIA

COVID-19 PANDEMIC PREPAREDNESS AND RESPONSE DAILY SITUATION REPORT ETHIOPIA

(Data reported as at 16:30hrs EAT (GMT+3), 16 April 2020)

16 April 2020

ISSUE
No

84

HIGHLIGHTS

- There are 7 newly detected COVID-19 cases bringing the total confirmed cases to 92 in the country.
- A total of 15 COVID-19 cases have recovered and a total of 3 COVID-19 deaths has occurred so far.
- Of the 54 new rumors /alerts received today, 38 fulfilled the suspected case definition.
- 127 new contacts of confirmed cases have been identified today bringing the number of contacts identified so far to about 1820.
- 401 COVID-19 laboratory samples were tested within the last 24 hours (7 positive and 394 negative).
- Chinese medical team arrives in Ethiopia to help fight COVID-19
- 90 calibrated infrared thermometers are received from National Metrological Institute.
- PPE donation received from United Arab Emirates.

COVID-19 NATIONAL UPDATE

3,792

PASSENGERS UNDER
MANDATORY QUARANTINE

1228

RUMORS/ALERTS RECEIVED
AND INVESTIGATED

1820

CONTACTS OF THE
CONFIRMED CASES

720

SUSPECTED CASES
DETECTED

92

TOTAL
CONFIRMED CASE

15

TOTAL RECOVERED

3

TOTAL DEATH

COVID-19 GLOBAL UPDATE

Access link for WHO COVID-19 monitoring dashboard: <https://who.sprinklr.com/>

Dashboard: Global Situation Update as of April 16, 2020

Source: WHO

Total Number of COVID-19 Affected Countries/Territories

213

Total Number of COVID-19 Confirmed Cases Globally

1,991,562

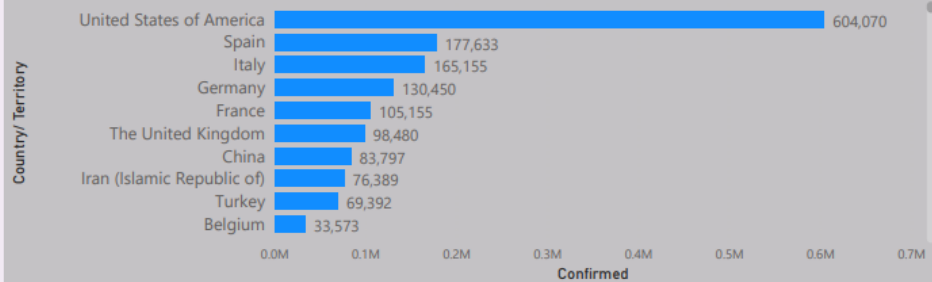
of African Countries/Territories with COVID-19 Confirmed Cases

54

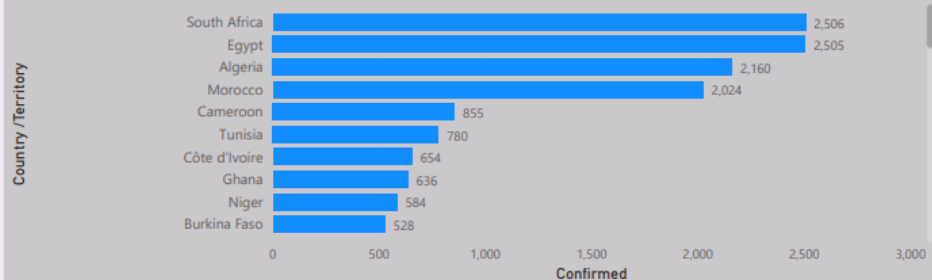
Total Number of Cases Confirmed in Africa

17,747

Top Ten Countries/Territories with COVID-19 Confirmed Cases



Top Ten African Countries/Territories with COVID-19 confirmed Cases



Dashboard: Global Situation Update as of April 16, 2020

Source: WHO

Total Number of Deaths with COVID-19 Globally

130,885

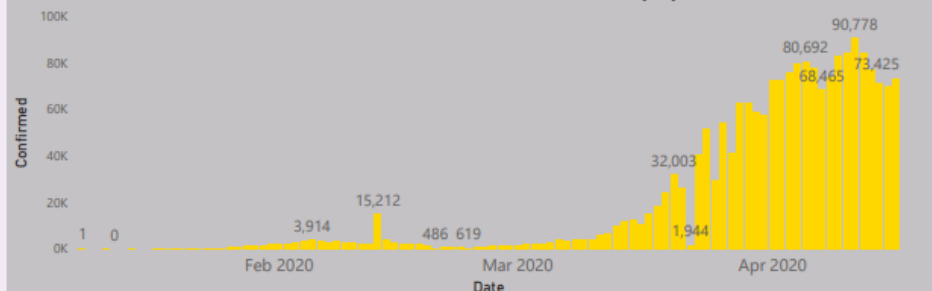
Total Number of Deaths in Africa with COVID-19

908

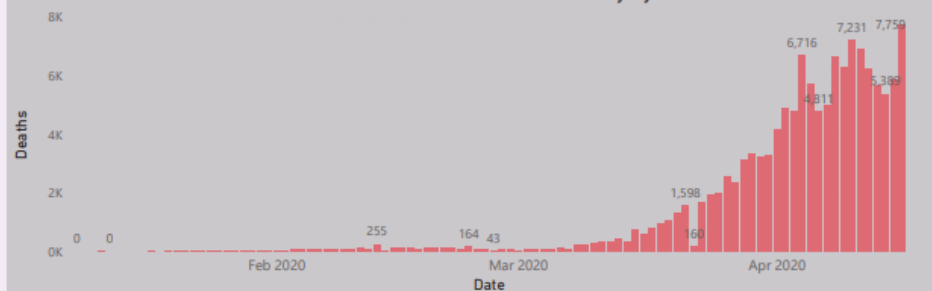
Total Number of Deaths in Europe with COVID-19

89,317

Number of Confirmed COVID-19 Cases Globally by Dates



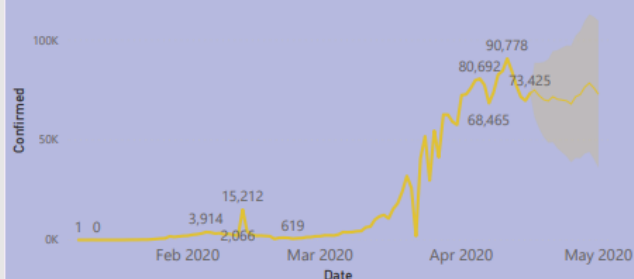
Number of Deaths with COVID-19 Globally by Date



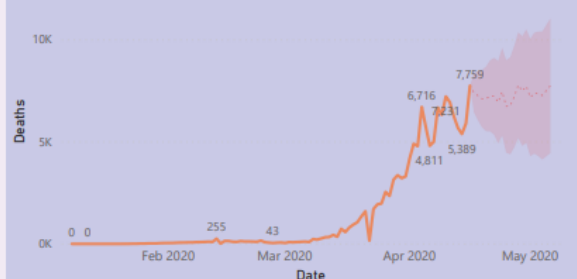
Dashboard: Global Situation Update as of April 16, 2020 [Forecast]

Source: WHO

Global Forecast/Prediction of Number of Cases for the Next Days



Global Forecast/ Prediction of Number of Death for the Next Days



MAJOR COVID-19 PREPAREDNESS AND RESPONSE EFFORTS IN ETHIOPIA

BACKGROUND

Ethiopia activated its IMS under the national PHEOC. WHO and its partners are currently supporting in scaling up preparedness efforts and implementation of related recommendations suggested by the IHR Emergency Committee. Different layer so coordination platform revitalized and the PHEOC is working collaboratively with various agency representative, Partners, Embassies, hospitality sector, Industrial parks and others. There is strong communication and updating from other countries through IHR-NFPs. The sub-national level is well engaged in the preparedness and response efforts. Joint regular media briefing sessions are being conducted.

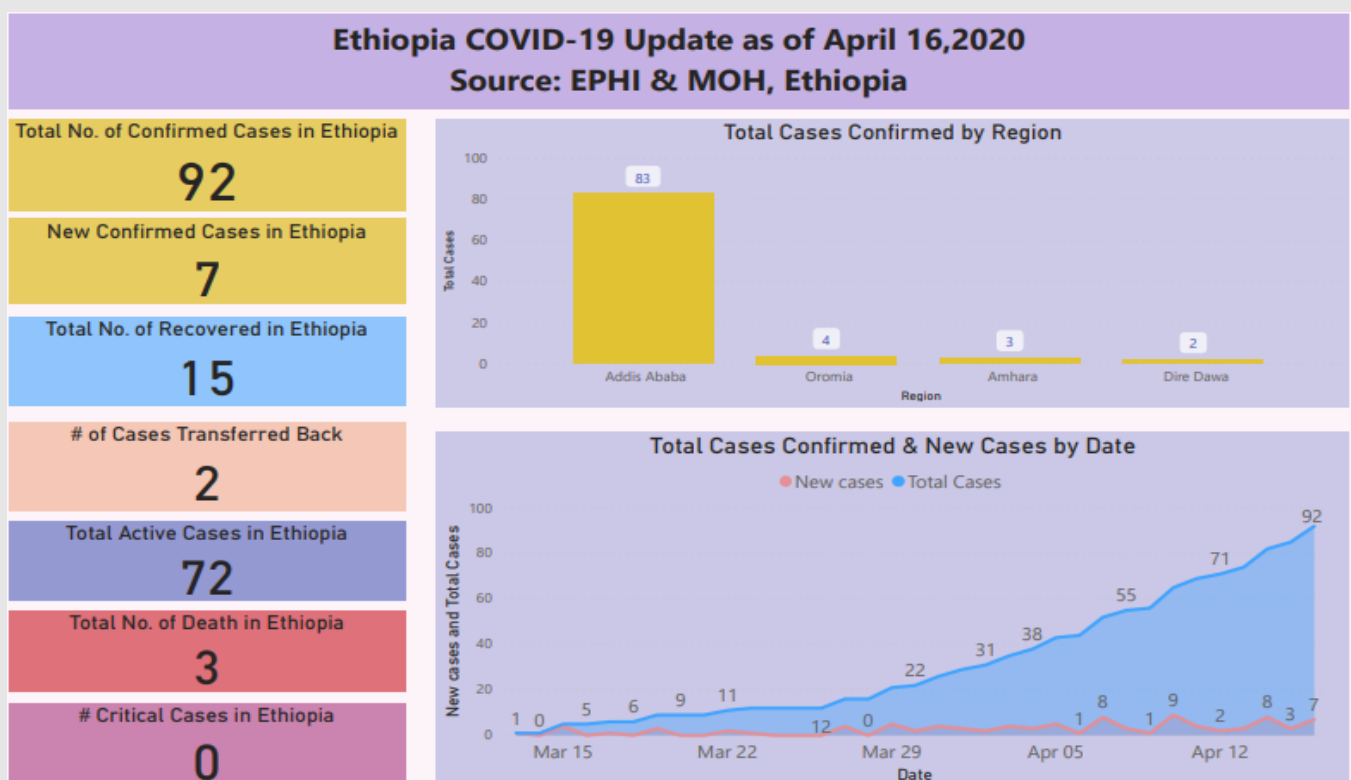
COORDINATION and COLLABORATION:

- Daily morning and evening briefing of the IMS core staffs and agency representatives is being conducted on daily basis.
- Discussion has been held with Addis Ababa Idir Hibret how to engage Idirs in prevention and control of COVID-19.

EPIDEMIOLOGY and LABORATORY SURVEILLANCE

Confirmed COVID-19 cases and death:

- There are 7 newly detected COVID-19 case bringing the total confirmed cases to 92 in the country.
- Fifteen of the COVID-19 confirmed cases have recovered so far.
- Two were transferred to their country on 23rd March 2020.
- A total of 3 COVID-19 related deaths is recorded so far.

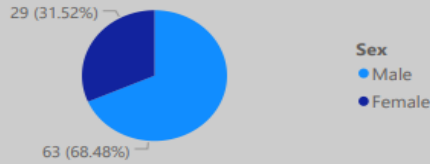


COVID-19 Confirmed Cases Summary Dashboard as of April 16, 2020

Total Confirmed Cases in Ethiopia

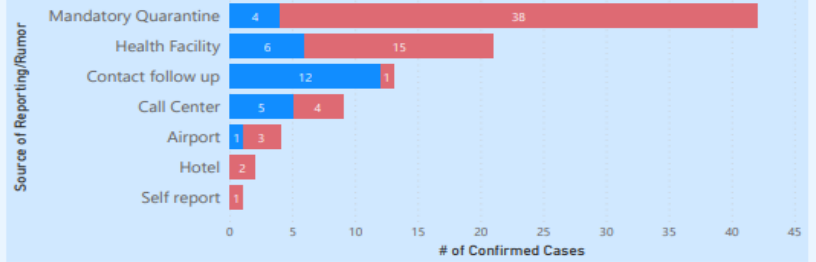
92

COVID-19 Confirmed Cases by Gender

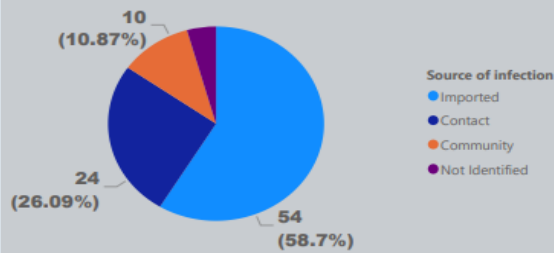


of Confirmed Cases by Source of Reporting/Rumor and Travel History in the last 14 days

Travel History in the last 14 days ● No ● Yes

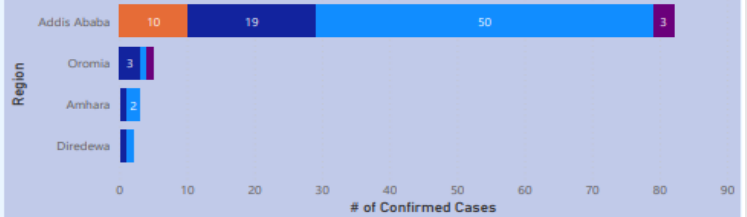


Confirmed Cases by Source of Infection



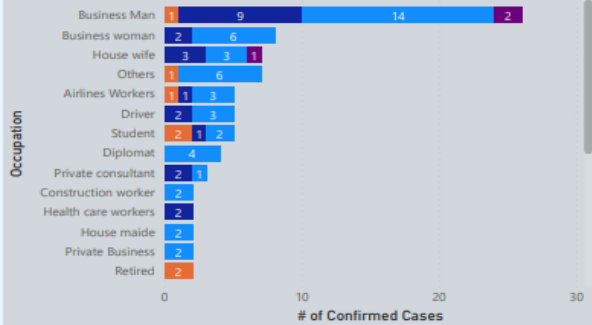
of Confirmed Cases by Region and Source of infection

Source of infection ● Community ● Contact ● Imported ● Not Identified



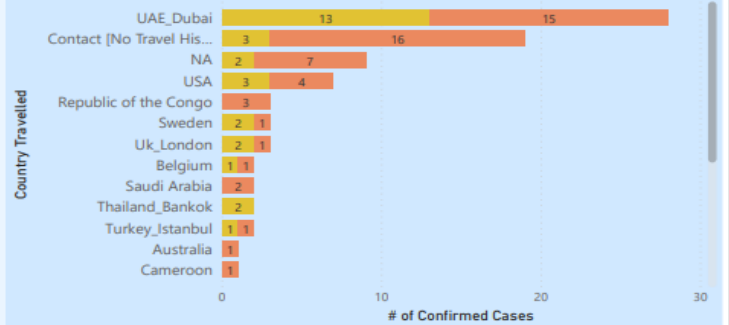
of Confirmed Cases by Occupation and Close contact with Cases

Source of infection ● Community ● Contact ● Imported ● Not Identified



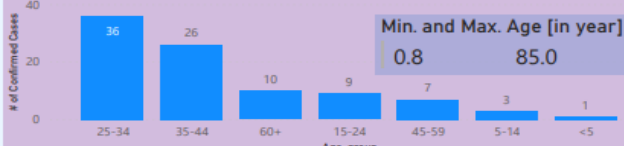
of Confirmed Cases by Country Travelled and Symptomatic

Symptomatic ● No ● Yes

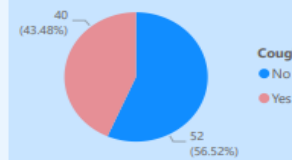


Confirmed Cases by Age Category (in Years)

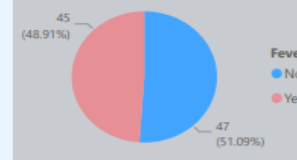
of Confirmed Cases by Age_group



of Confirmed Cases by Cough

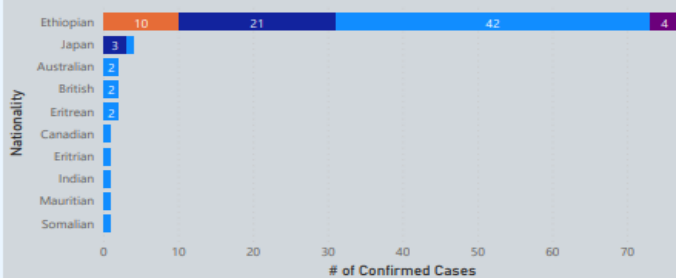


of Confirmed Cases by Fever



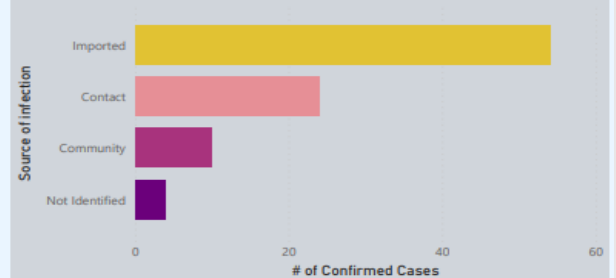
of Confirmed Cases by Nationality and Source of infection

Source of infection ● Community ● Contact ● Imported ● Not Identified



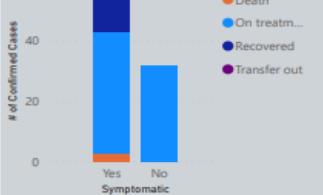
of Confirmed Cases by Source of infection

Source of infection ● Imported ● Contact ● Community ● Not Identified



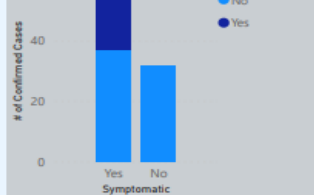
of Confirmed Cases by Symptomatic and Outcome status

Outcome status ● Death ● On treatm... ● Recovered ● Transfer out

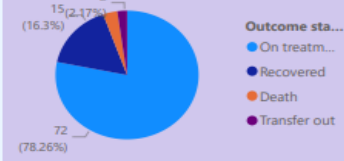


of Confirmed Cases by Symptomatic and Health facility visit before onset

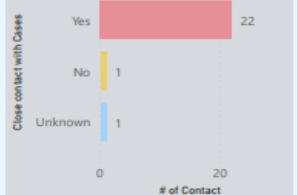
Health facility visit before onset ● No ● Yes



of Confirmed Cases by Outcome status



of Cases with Contact by Close Contact with Cases



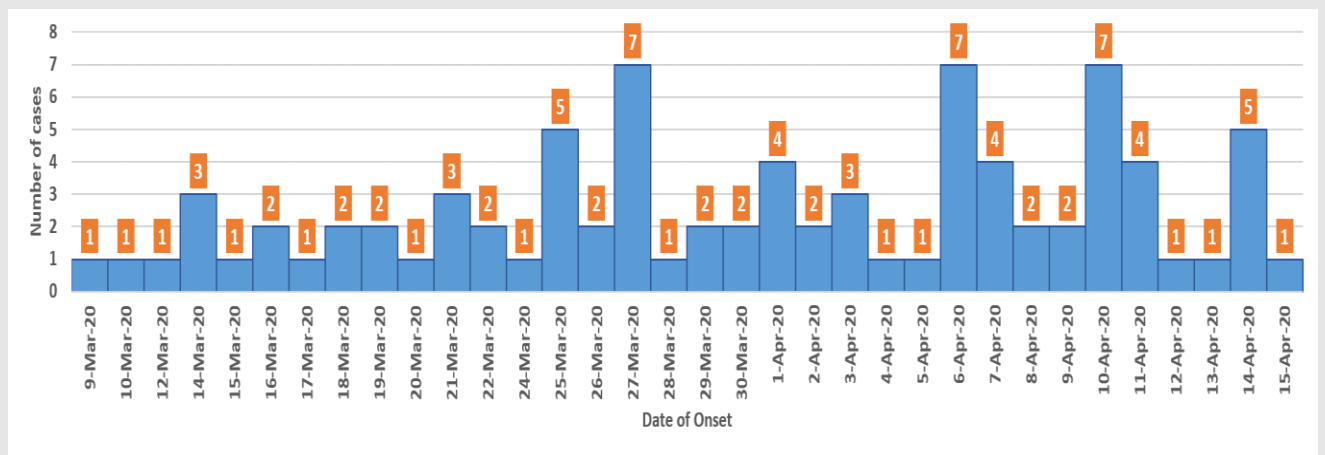


Fig: Epi-curve of confirmed cases by the date of Onset

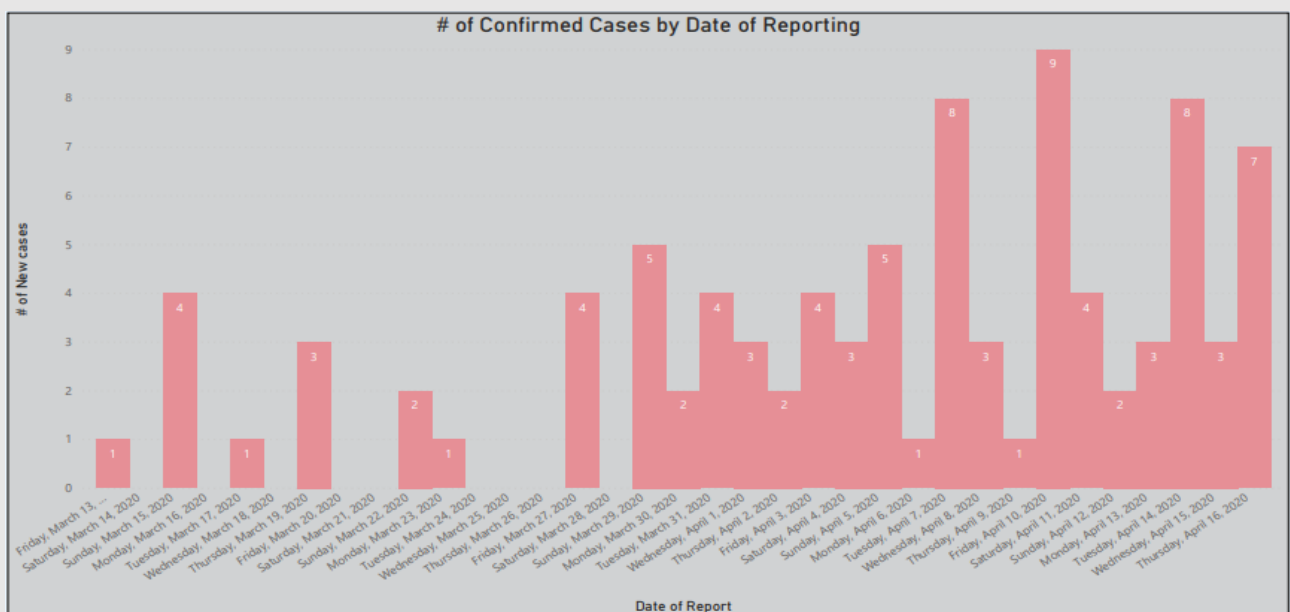


Fig: Epi-curve of confirmed cases by date of confirmation

Laboratory test:

- 401 laboratory samples were tested for COVID-19 in the last 24 hours
- Of these samples tested 7 were found positive and 394 are negative
- 5,389 COVID-19 laboratory samples are tested so far.

Contact tracing and follow-up:

- As of April 16, 2020:
 - A total of 1,820 (127 new) contacts of confirmed cases have been identified.
 - 916 (34 new) have completed 14 days follow-up, while 869 contacts are still on follow-up.
 - 58 contacts developed COVID-19 suggestive symptoms.
 - 29 (2 new) of the contacts were tested positive, which are among the currently existing confirmed positive cases.

Contact Tracing Dashboard as of April 16, 2020

Source: EPHI & MoH, Ethiopia

Total Number of Contact List

1820

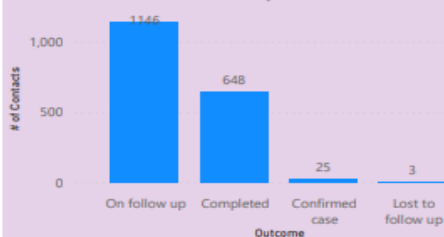
of Health Worker in the Contact List

372

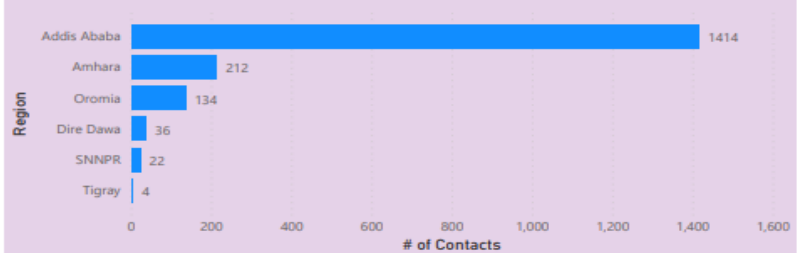
of Confirmed Cases from the Contact List

25

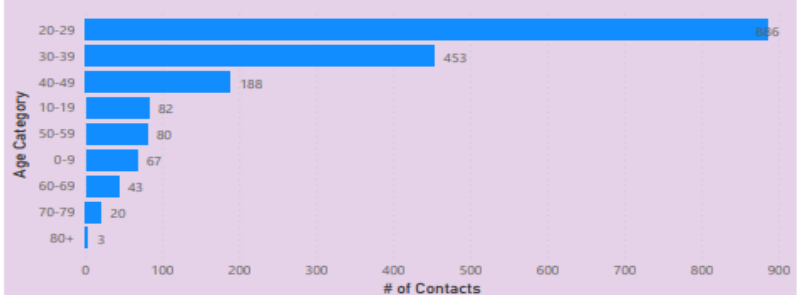
of Contacts by Outcome



of Contacts by Region



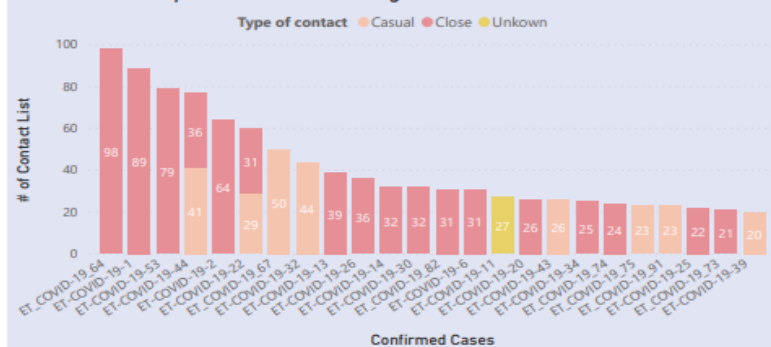
of Contacts by Age Category



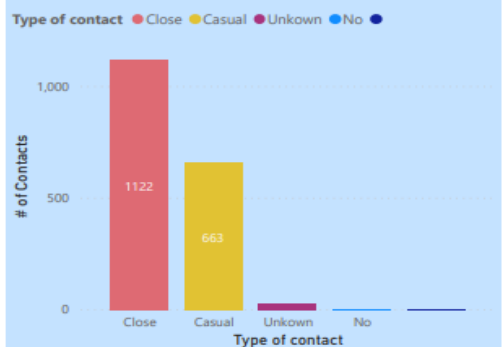
Contact Tracing Dashboard as of April 16, 2020

Source: EPHI & MoH, Ethiopia

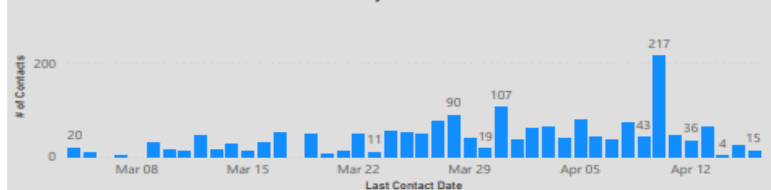
Top 15 Cases with the highest number of Contacts



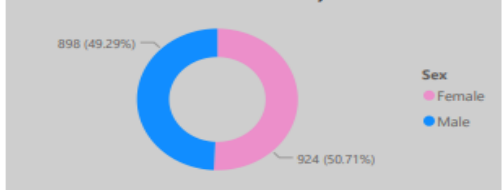
of Contact Lists by Type of contact and Type of contact



of Contacts by Last Contact Date



of Contact Lists by Sex



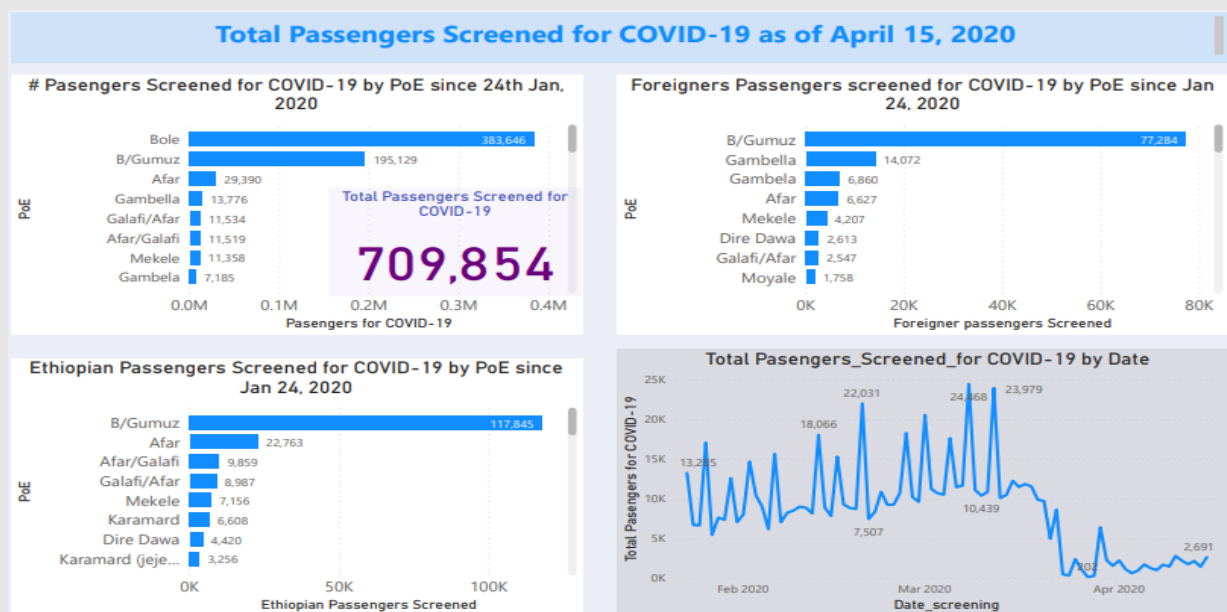
Rumors collection and verification from all sources

- As of April 16, 2020:
 - 1228 rumors/alerts have been received and investigated. Of these, 54 rumors (7 via the call center) are reported today.
 - 720 rumors/alerts (38 new) have fulfilled the suspected case definition.
- On April 16, 2020, a total of 9,382 calls are received and responded via toll-free call centers.

PASSENGERS SCREENING:

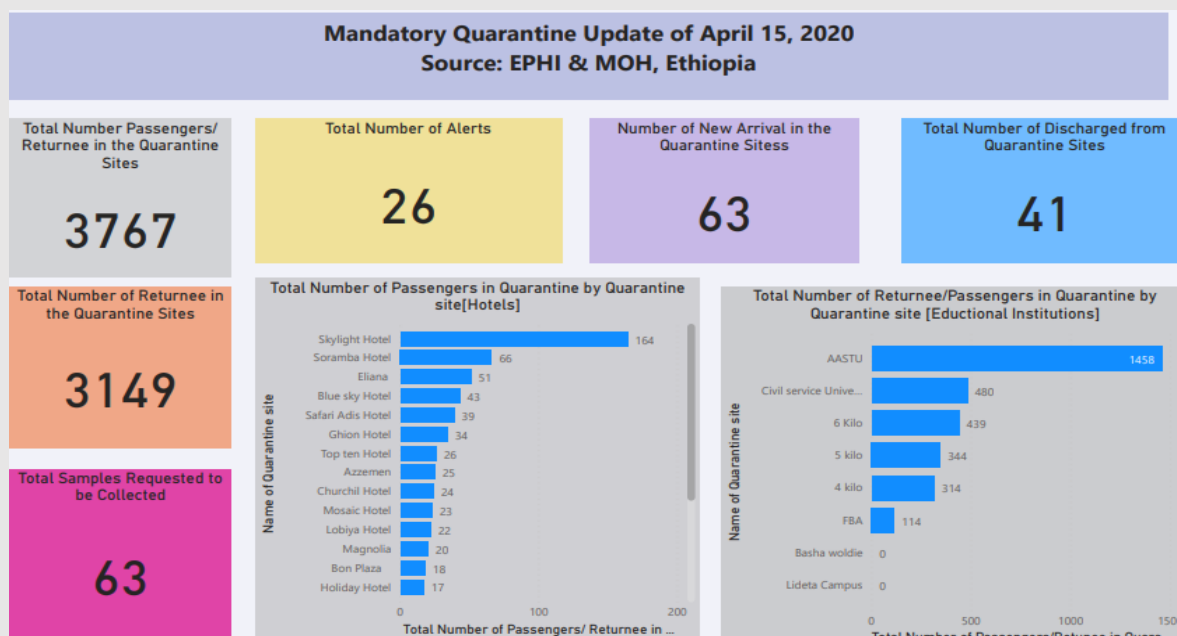
- A total of 3,498 passengers arrived into the country since March 23, 2020. The number didn't include the forced returnees coming in from different countries.

- Follow up of the quarantine implementation ongoing for passengers coming from abroad and returnees from different countries.
- Health screening for arriving international passengers and returnees are ongoing.



Quarantined Passengers and Returnees Related Activities:

- As of April 16, 2020:
 - A total of 3,792 people (541 international travelers and 3149 returnees) are under mandatory quarantine at designated hotels and selected sites.
 - 3,441 (77 new) have completed 14 days follow-up and discharged
 - 17 alerts are reported among the people under quarantine.



Phone follow-up of travelers:

- As of April 16, 2020:
 - 48 travelers and discharged suspects are under phone follow-up
 - 3,364 travelers have completed 14 days of follow-up and are discharged
- There is no alert case detected during the follow-up today.

CASE MANAGEMENT AND INFECTION PREVENTION AND CONTROL (IPC):

- Disinfection is done in Eliana, Ambassador, Holiday, Churchill and Best Western hotels.
- There are 72 active cases in the case treatment centers currently.
- Of the active cases three are located in the designated treatment center in Bahir Dar, Amhara regional state and two are in Dire Dawa city administration.
- There is one severe case and others are on medical care in stable condition.
- A total of fifteen people fully recovered.
- 22 suspected cases are admitted today.
- 20 initially suspected cases are discharged after laboratory test became negative.
- There are 119 suspected cases in the isolation centers waiting for laboratory results.

LOGISTICS, ADMINISTRATION AND RELATED ACTIVITIES:

- 90 calibrated infrared thermometers are received from National Metrological Institute.
- Zoom Meeting has been held with the regional logistics representatives
- PPE donation received from United Arab Emirates.

RISK COMMUNICATION:

- Social mobilization conducted by two mobile vans around Arat Kilo, Sidist Kilo, Janmeda, Entoto, Gojjam Verenda, Merkato Sebategna and Atena Tera regarding COVID-19 prevention and control.
- Press release on newly confirmed COVID-19 cases shared for the public.

TRAINING AND ORIENTATION:

- 10 individuals (8 from National Disaster Risk Management Commission and 2 from Ministry of Agriculture) are given orientation on COVID-19 and health screening at Points of Entries.
- Orientation is given for Ministry of Culture and Tourism on hotel Standard Operating Procedure.
- IPC training is given for the newly recruited environmental health professionals, psychologists and social workers.
- The second round of 3 days training on COVID-19 is completed for 12 medical doctors and 12 nurses to be deployed to Eka Kotebe and St. Peter Specialized Hospital COVID-19 treatment centers.



NATIONAL COVID-19 RELATED DOCUMENTS (PROTOCOLS AND GUIDELINES)

AVAILABLE ONLINE: Can be accessed from: <https://www.ephi.gov.et/index.php/public-health-emergency/novel-corona-virus-update/guidelines>

MEDIA / WEB SCANNING:

News: Chinese medical team arrives in Ethiopia to help fight COVID-19:
http://www.china.org.cn/world/Off_the_Wire/2020-04/16/content_75941437.htm

Research findings:

- Immune system and covid-19

- Limited information is available to characterize the spectrum of clinical illness, transmission efficiency, and the duration of viral shedding for immunocompromised persons with novel coronavirus disease (COVID-19) (1).
- Experience from other respiratory viral infections suggests that persons with COVID-19 may shed detectable viral material and potentially infectious virus for an extended period of time after recovery, which is also a concern with immunocompromised patients (1).
- Immunopathology is suggested as a key player in the development of disease severity which could be one explanation for the abundance of mild cases of COVID-19 in children (2).
- Results from a case series study suggest that the long-term use of glucocorticoids might cause atypical infections, a long incubation period, and extra transmission of COVID-19 (3).
- A systematic review also showed that children often have milder disease than adults and that elevated inflammatory markers were less common in children, and lymphocytopenia seemed rare (4).

- Hyper-inflammation:

- Predictors of fatality from a recent retrospective, multicenter study of 150 confirmed COVID-19 cases in Wuhan, China, included elevated ferritin in survivors, suggesting that mortality might be due to virally driven hyper-inflammation (5).
- Predictors of a fatal outcome in COVID-19 cases include elevated inflammatory indicators in the blood. The results obtained from this study also suggest that COVID-19 mortality might be due to virus-activated “cytokine storm syndrome” (5, 6).
- A retrospective, multicenter cohort study showed that Sepsis was the most frequently observed complication of COVID-19 (7).
 - And another RCT showed significant survival benefit of IL-1 blockade in sepsis and hyper-inflammation, without increased adverse events. Suggesting, in hyper-inflammation, immunosuppression is likely to be beneficial (8).
- Another study suggested that all patients with severe COVID-19 should be screened for hyper-inflammation using laboratory trends to identify the subgroup of patients for whom immunosuppression could improve mortality. Accordingly, therapeutic options could include steroids, intravenous immunoglobulin, selective cytokine blockade and JAK inhibition (9).
 - Note that, as during previous pandemics (SARS & MARS), corticosteroids are not routinely recommended and might exacerbate COVID-19-associated lung injury (10).

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2. Liu J, Zheng X, Tong Q, Li W, Wang B, Sutter K, Trilling M, Lu M, Dittmer U, Yang D. Overlapping and discrete aspects of the pathology and pathogenesis of the emerging human pathogenic coronaviruses SARS-CoV, MERS-CoV, and 2019-nCoV. *J Med*
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4. Systematic review of COVID-19 in children shows milder cases and a better prognosis than adults. Ludvigsson JF. doi: 10.1111/apa.15270.
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6. COVID-19: consider cytokine storm syndromes and immunosuppression. March 13, 2020 [https://doi.org/10.1016/S0140-6736\(20\)30628-0](https://doi.org/10.1016/S0140-6736(20)30628-0)
7. Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study. Fei Zhou, Ting Yu, Ronghui Du et.al. DOI:[https://doi.org/10.1016/S0140-6736\(20\)30566-3](https://doi.org/10.1016/S0140-6736(20)30566-3)
8. Shakoory B, Carcillo JA, Chatham WW, et al. Interleukin-1 receptor blockade is associated with reduced mortality in sepsis patients with features of macrophage activation syndrome: reanalysis of a prior phase iii trial. *Crit Care Med* 2016; 44: 275–81.
9. Fardet L, Galicier L, Lambotte O, et al. Development and validation of the HScore, a score for the diagnosis of reactive hemophagocytic syndrome. *Arthritis Rheumatol* 2014; 66: 2613–20
10. Russell CD, Millar JE, Baillie JK. Clinical evidence does not support corticosteroid treatment for 2019-nCoV lung injury. *Lancet* 2020; 395: 473–75.

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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

Figures presented in this situation report are pulled from official releases of the World Health Organization,
Other sources from the web, as well as report compiled by the National Incidence Response Team

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