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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), 03 April 2020)

03 April 2020

ISSUE
No

71

HIGHLIGHTS

- There are 4 newly detected COVID-19 cases bringing the total confirmed cases to 35 in the country.
- Three of the COVID-19 confirmed cases have recovered.
- 74 COVID-19 specimens were analyzed within the last 24 hours.
- Out of 30 rumors /alerts investigated today 20 fulfilled the suspected case definition.
- 78 new contacts of confirmed cases have been identified today bringing the number of contacts identified so far to about 761
- Four alert cases identified each among the passengers under quarantine and people under phone follow-up.
- Zoom meeting conducted with partners to enhance engagement and support on the COVID-19 preparedness and response activities.
- EPHI top leadership discussed with the PHEOC section chiefs

COVID-19 NATIONAL UPDATE

1697

Passengers under mandatory
quarantine

570

TRAVELERS
UNDER PHONE FOLLOW UP

692

RUMORS/Alerts
RECEIVED and INVESTIGATED

761

Contacts of the confirmed cases

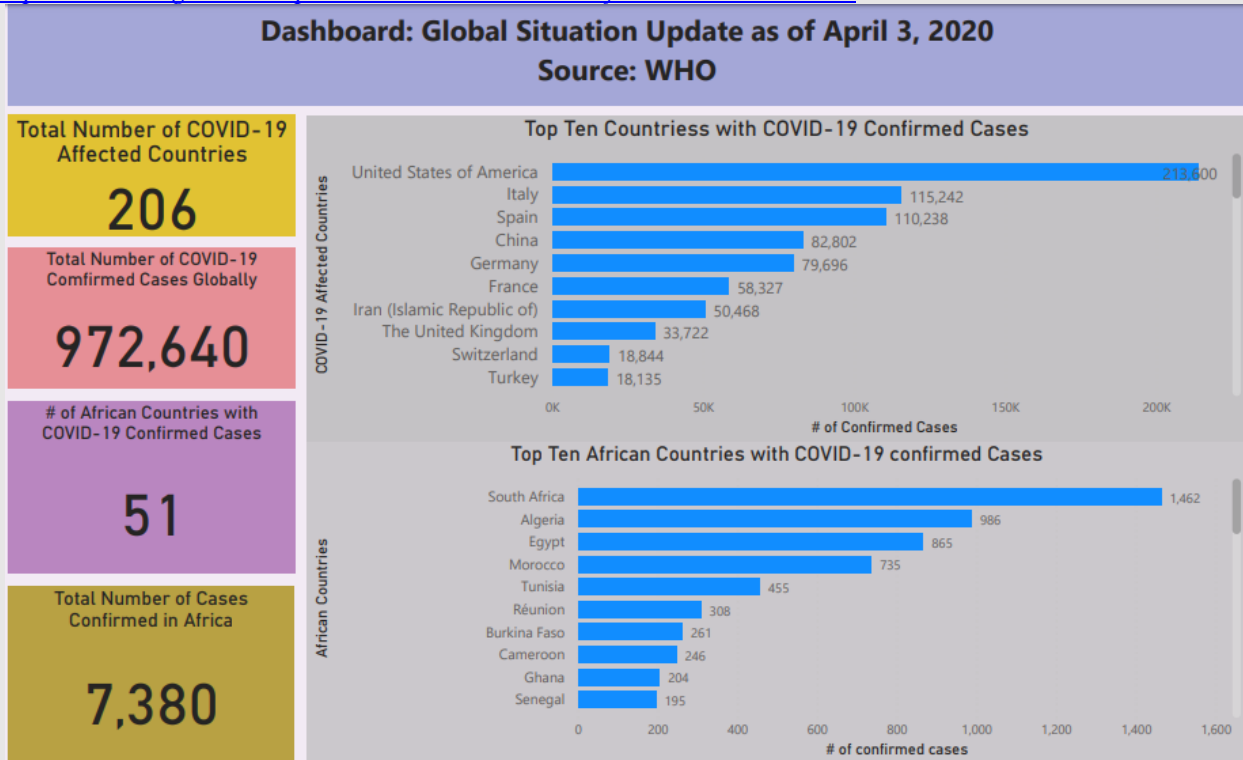
362

SUSPECTED CASES
DETECTED

COVID-19 GLOBAL UPDATE

Access link for WHO COVID-19 monitoring dashboard:

<https://experience.arcgis.com/experience/685d0ace521648f8a5beee1b9125cd>



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.

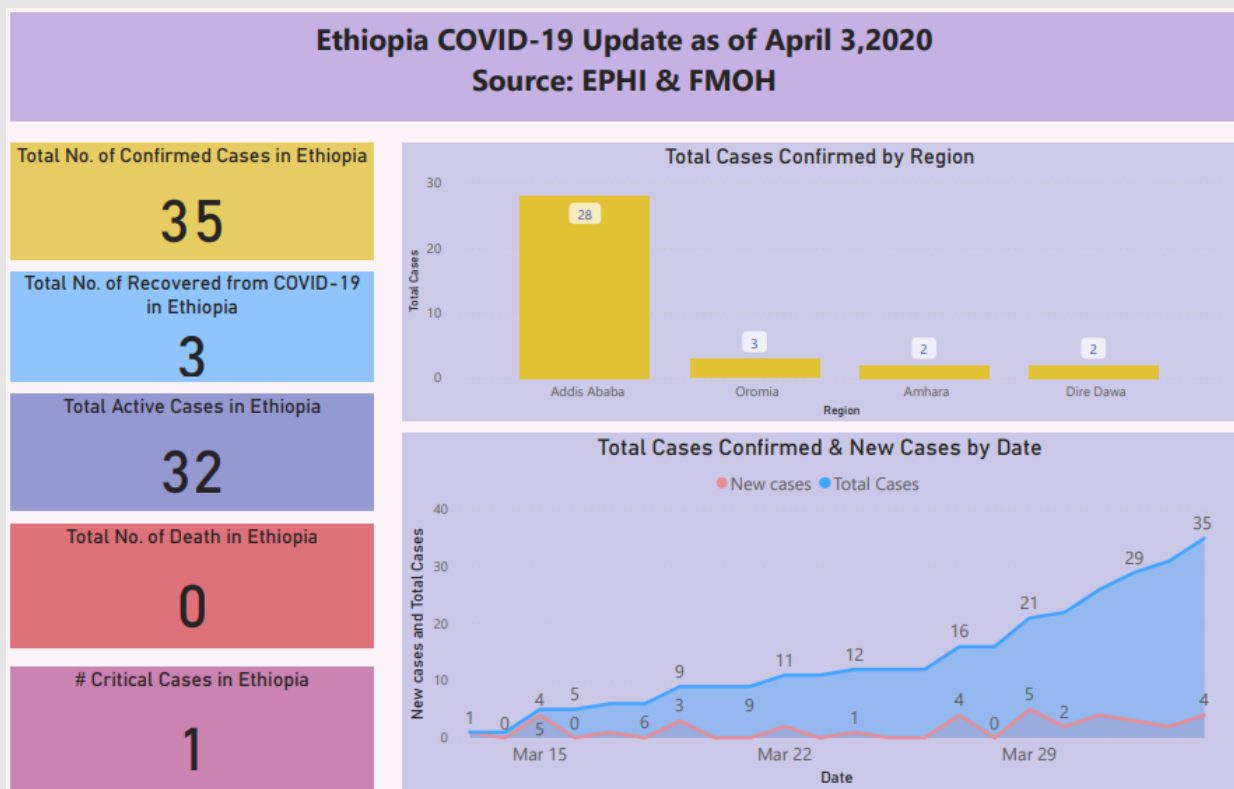
COORDINATION and COLLABORATION:

- Daily morning and evening briefing of the IMS core staffs and agency representatives is being conducted on daily basis.
- Zoom meeting conducted to update partners and discuss on the way forwards to intensify COVID-19 preparedness and response efforts by consolidating supports from all partners and stakeholders.

EPIDEMIOLOGY and LABORATORY SURVEILLANCE

Confirmed COVID-19 cases:

- There are 4 newly detected COVID-19 cases bringing the total confirmed cases to 35 in the country.
- Three of the COVID-19 confirmed cases have recovered.
- One of the patients is getting care in Intensive Care Unit.



Laboratory test:

- As of April 3, 2020; a total of 1,222 specimens have been tested from suspected cases, contacts of confirmed cases, SARI/Pneumonia from selected health facilities and the backlogged influenza samples.
- Among these 35 are found positive.
- In the last 24hrs 74 specimens were analyzed.

Contact tracing and follow-up

- As of April 3, 2020:
 - A total of 761 (78 new) contacts of confirmed cases have been identified.
 - 329 (49 new) have completed the 14 days follow-up, while 423 contacts are still on follow-up.
 - 25 (3 new) contacts developed COVID-19 suggestive symptoms.
 - 9 (1 new) of the symptomatic contacts were tested positive, which are among the currently existing confirmed positive cases.
- There have been no contacts lost to follow-up.

Rumors collection and verification from all sources

- As of April 3, 2020:
 - 692 rumors/alerts have been received and investigated. Of these, 30 rumors are reported today
 - 362 rumors/alerts (20 new) have fulfilled the suspected case definition.
- On April 3, 2020; a total of 9,527 calls were received and responded via toll-free call centers. Of these calls 13 were rumor reports.

Phone Follow-Up of Travelers

- As of April 3, 2020:
 - 570 travelers and discharged suspects are under follow-up.
 - 2,998 travelers (242 new) have completed 14 days of follow-up and graduated from follow-up.
 - Four alerts were detected during follow-up.

Quarantined passengers follow up

- As of April 3, 2020; a total of 1,697 passengers are under mandatory quarantine at designated Hotels. Of these 432 are new arrivals over last night.
- Four alert cases are identified today from passengers under quarantine.
- Focal person, among health care workers, is assigned at each quarantine sites.

PASSENGERS SCREENING

- A total of 2,372 passengers arrived into the country since March 23, 2020
- Follow up of the mandatory quarantine implementation for passengers coming from abroad via BIA in ongoing.
- Health screening for arriving international passengers is ongoing.

CASE MANAGEMENT AND INFECTION PREVENTION AND CONTROL (IPC):

- Assessment is done at hand washing facilities and their utilization at private businesses and community levels.
- Currently there are 30 confirmed cases in the case treatment centers. Of these, two are under treatment in the designated treatment center in Bahir Dar, Amhara regional state and two are in Dire Dawa city administration
- Only one critical case is in the ICU and the remaining cases are on medical care in stable condition.
- 21 suspected cases were isolated today.
- 13 initially suspected cases are discharged after laboratory test became negative.

LOGISTICS, ADMINISTRATION AND RELATED ACTIVITIES:

- Assessment of national Alcohol Based Hand Rub (ABHR) production capacity and demand is done at the federal and regional levels.

RISK COMMUNICATION:

- Stakeholders for five regions to strengthen community engagement were identified.
- 49 community radios are identified and communicated.
- 25,000 COVID-19 related brochures are distributed to Amhara region.
- Press statement on newly confirmed COVID-19 cases shared for the public.

TRAININGS AND ORIENTATIONS

- Onsite orientation has provided for staffs working in isolation and quarantine centers.

MEDIA / WEB SCANNING:

COVID-19 Reproductive Number:

Reproductive number (R_0 , pronounced *R-nought* or *r-zero*) is an indication of the transmissibility of a virus, representing the average number of new infections generated by an infectious person in a totally naïve (at risk) population.

- This can also be named as the basic reproduction number (R_0). It is when there is no immunity from past exposures or vaccination, nor any deliberate intervention in disease transmission.
- We refer to the reproductive number as an 'effective reproduction number' when there is some immunity or some intervention measures are in place (1).

In the case of COVID-19 reproductive number indicates how contagious the virus is or how rapidly the disease spreads.

- A literature review study done in China showed an average COVID-19 R_0 of 3.28 (2).
- On January 2020, WHO, on the preliminary estimate, estimated R_0 to be between 1.4 and 2.5 (3).
- Another preliminary estimation of the basic reproduction number in China, from 2019 to 2020 have estimated a R_0 between 2.24 and 3.58 (4).
- Another study on the probable outbreak size on the Diamond Princess Cruise ship estimated that the Maximum-Likelihood (ML) value of R_0 was 2.28 for COVID-19 outbreak at the early stage on the ship (5).
- Many of the existing online preprints estimate the mean R_0 ranging from 2 to 5 (6,7).

From previous epidemic experiences, the R_0 for Smallpox 4.5 (8) for Poliomyelitis 6 (8), for Severe Acute Respiratory Syndrome (SARS) 3.5 (9), for the 1918 Spanish flu 3.8 (10), for H1N1 influenza 1.33 (11), and for Ebola 1.51 (12) can be mentioned for comparison.

Generally, an outbreak with a reproductive number below 1 will gradually disappear while an outbreak with $R_0 > 1$ will be able to start spreading in a population; the larger the value of R_0 , the harder it is to control the epidemic (1).

Travel restriction:

- A study found that daily air travel volume positively correlates with imported-and-reported case counts of SARS-CoV-2 infection among high surveillance locations (13).
- We noted that increasing flight volume by 31 passengers/day is associated with 1 additional expected imported-and-reported case (13).
- Another study that used a global Meta population disease transmission model estimated that travel quarantine has a more marked effect at the international scale, where the number of case importations to be reduced by 80% until the end of February (14).
- This study showed that travel quarantine delays the overall epidemic progression by only 3 to 5 days (14).
- Modeling results also indicate that sustained 90% travel restrictions to and from Mainland China only modestly affect the epidemic trajectory unless combined with a 50% or higher reduction of transmission in the community (14).
- A systematic review indicated that overall travel restrictions have only limited effectiveness in the prevention of spread, particularly in those high transmissibility scenarios in which R_0 is at least 1.9 (done on influenza) (15).

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8335 / 952



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

PREPARED BY

Fantu Lombamo (MD, MPH) and Negusse Yohannis (PhD)
National PHEOC, Planning Section, documentation Unit

CONTRIBUTORS

Firmaye Bogale (Planning Section, PHEOC)

EDITED and REVIEWED BY

Shambel Habebe (Planning Section Chief) and
Zewdu Assefa (COVID-19 Incident Manager)

FOR MORE INFORMATION and NOTIFICATION

Web: www.ephi.gov.et

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Call: 8335 (TOLL FREE LINE) or 011 276 5340

Email: ephieoc@gmail.com or pheodatacenter@gmail.com

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