

COVID-19 Epidemiologic Bulletin

Prepared by Emergency Operation Center (EOC)

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Key Messages

- The COVID-19 cases in Ethiopia crossed 37,500. Numbers reported from Addis Ababa crossed 23,000.
- The one month COVID-19 Prevention and Testing Campaign launched in Ethiopia has already been able to test more than 182000 people since launched on August 8 and the MOH announced more than 90% of those who tested positive are from the community.
- Researchers around the world are developing more than 165 vaccines against the coronavirus, and **32 vaccines** are in human trials.
- The head of the World Health Organization (WHO) said he hopes the coronavirus pandemic will be over in less than two years. Speaking in Geneva, he said the Spanish flu of 1918 had taken two years to overcome. But he added that current advances in technology could enable the world to halt the virus "in a shorter time".

- In Africa, the average daily cases of coronavirus fell last week. The continent-wide daily average was 10,300 last weeks, down from 11,000 the week before.
- The unprecedented and prolonged school closures aimed at keeping students safe from COVID-19 are harming them in other ways, WHO and UNICEF said urging governments in Africa to promote the safe reopening of schools while taking measures to limit the spread of the virus.

1. COVID Global and Local Statistical Situation Updates

1.1. Global Status COVID

Global (August 22, 2020, 11:30 GMT) (Source: Worldometer).

- Total confirmed: 23,148,640
- Total dead: 803,796
- Total recovered: 15,732,468
- Total countries affected: 215

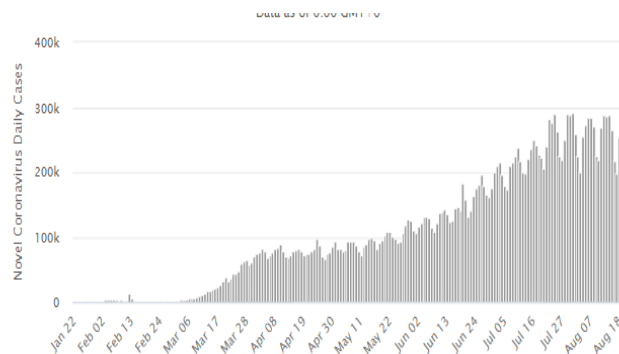


Fig 1; Daily new cases, worldwide (Source: worldometer)

1.2. African Situation

COVID - Regional Africa, (August 22, 2020, 16:23 GMT) (Source: Worldometer)

- Total confirmed: 1,172,811
- Total dead: 27,377
- Total recovered: 892,304
- Total countries affected: 57

1.3. Ethiopian Status

COVID - National (Ethiopia), (August 22, 2020, 7:46 PM) (Source: Ethiopian MOH)

- Total tested; 736,904
- Total confirmed: 39,033
- Total dead: 662
- Total recovered: 14,480

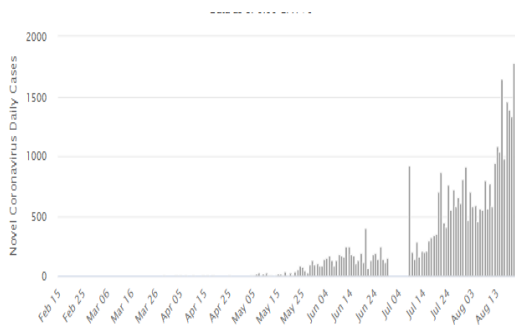


Fig 2: Daily new Corona cases in Ethiopia (Source: Worldometer)

1.4. COVID - TASH:

COVID Screening and Diagnosis updates @ TASH

- Total Thermal Screened (as of 20/08/2020): 755,398
- Total COVID Screened at TASH (15-20/08/2020): 80
- Total COVID Screened at TASH (cumulative): 10,445
- Total COVID tested at TASH (14-20/08/2020): 401
- COVID Confirmed at TASH (this week): 129
- Total COVID Confirmed at TASH (cumulative): 411
- COVID-19 Confirmed TASH staff (14-21/08/2020): 29
- Total COVID-19 Confirmed TASH staff (cumulative): 78

1.4.1 TASH Thermal Screening

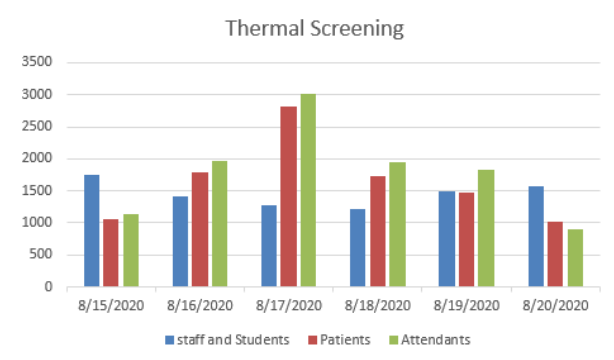


Fig 3: Daily reports of thermal screening at TASH (this week) Source: TASH-HMIS

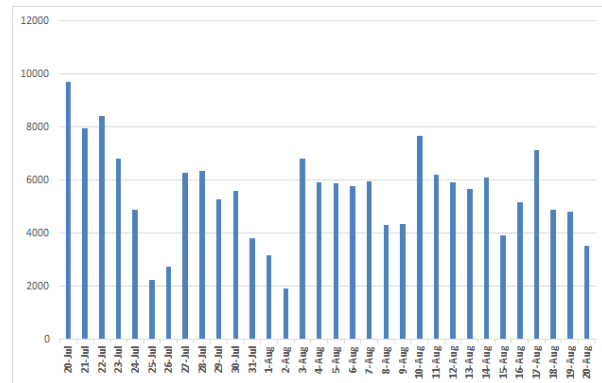


Fig 4: Daily reports of thermal screening at TASH (20th July-20th Aug, 2020) Source: TASH-HMIS

1.4.2. TASH COVID19 Testing

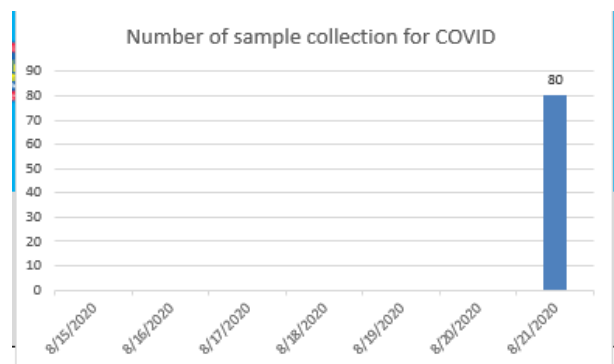


Fig 5: Number of samples collected at TASH (this week) Source: TASH-HMIS.

1.4.3. TASH-Outpatient Visit

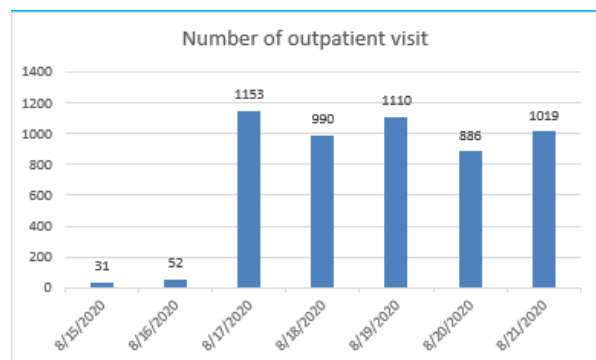


Fig 7: Non-COVID-19 outpatient visit at TASH (this week) Source: TASH-HMIS.

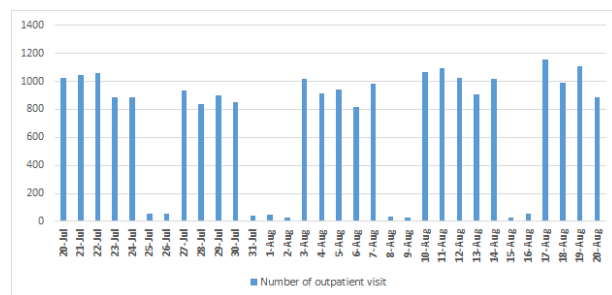


Fig 8: Non-COVID-19 outpatient visit at TASH (20th July-20th Aug, 2020) Source: TASH-HMIS.

1. 1.4 .4. TASH-Emergency and Inpatient Visit

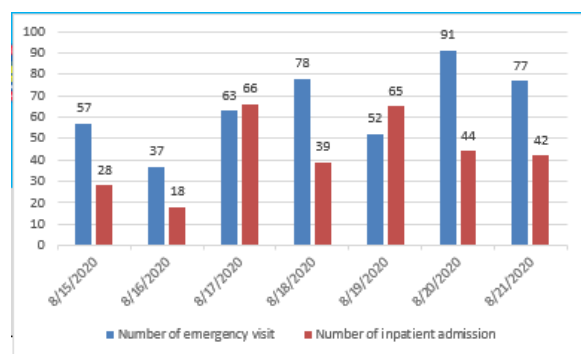


Fig 9: Non-COVID-19 emergency and inpatient visit at TASH (this week) Source: TASH-HMIS.

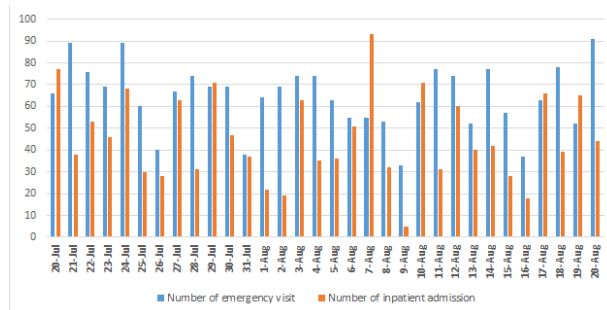


Fig 10: Non-COVID-19 emergency and inpatient visit at TASH (20th July-20th Aug, 2020) Source: TASH-HMIS.

1.4.5 TASH-Maternal and Newborn Health

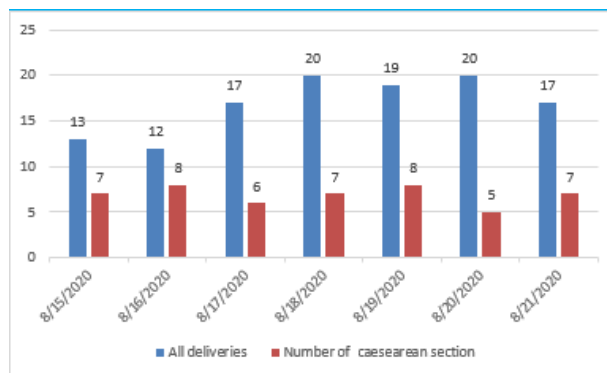


Fig 11: Non-COVID-19 Women deliveries at TASH (this week - Source: TASH-HMIS).

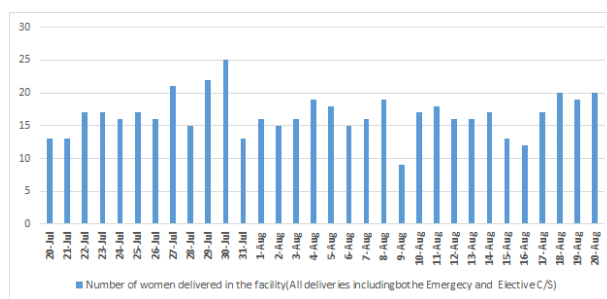


Fig 12: Non-COVID-19 Women deliveries at TASH (20th July-20th Aug, 2020) - Source: TASH-HMIS

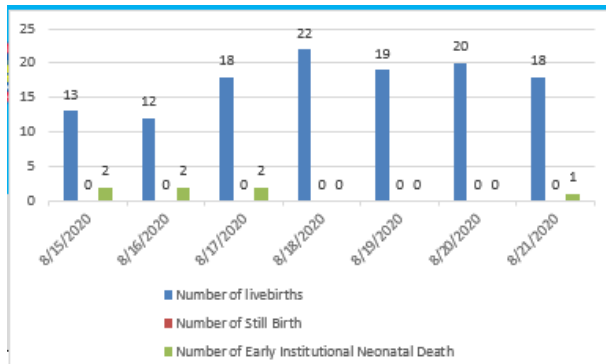


Fig 13: Live births and Early Neonatal Death at TASH (**this week** - Source: TASH-HMIS).

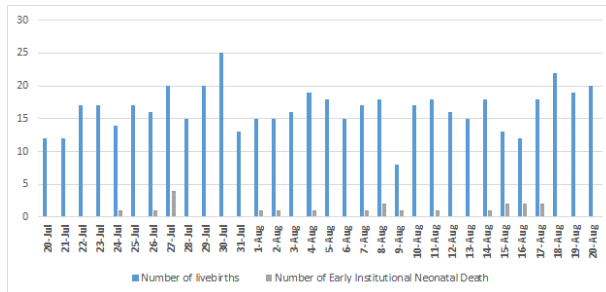


Fig 14: Live births and Early Neonatal Death at TASH (20th July-20th Aug, 2020)- Source: TASH-HMIS).

6. TASH-Surgery Performance

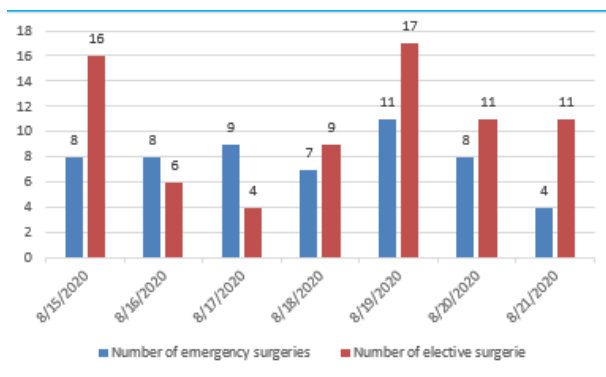


Fig 15: Non-COVID-19 emergency and elective surgeries performed at TASH (**this week**) Source: TASH-HMIS

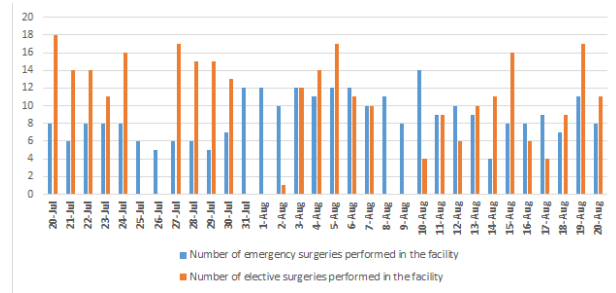


Fig 16: Non-COVID-19 emergency and elective surgeries performed at TASH (20th July-20th Aug, 2020) Source: TASH-HMIS

7. TASH-Non-COVID-Deaths

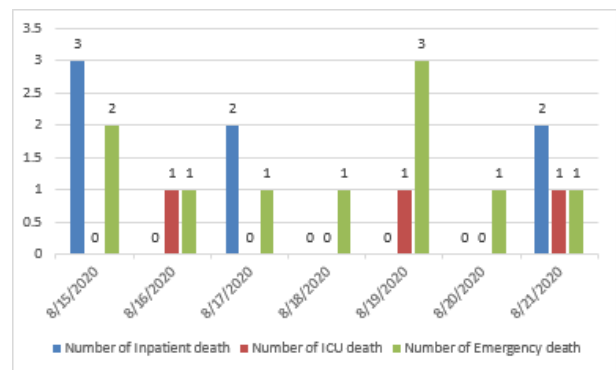


Fig 17: Non-COVID-19 inpatient, emergency and ICU deaths at TASH (**this week**) Source: TASH-HMIS.

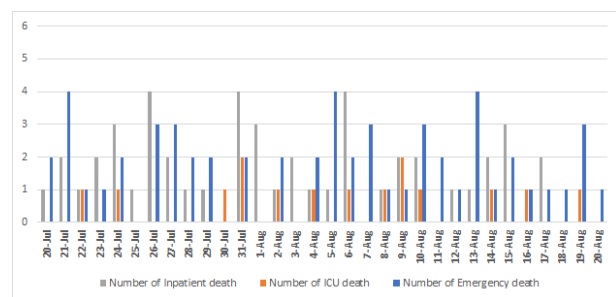


Fig 18: Non-COVID-19 inpatient, emergency and ICU deaths at TASH (20th July-20th Aug, 2020) Source: TASH-HMIS.

8. TASH-Inpatient Discharges

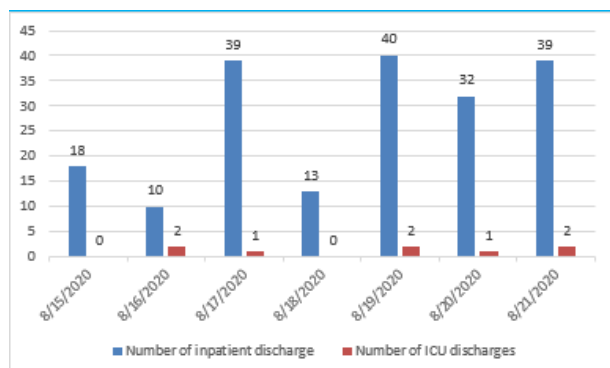


Fig 19: Non-COVID-19 inpatient and ICU discharge at TASH (**this week**) Source: TASH-HMIS.

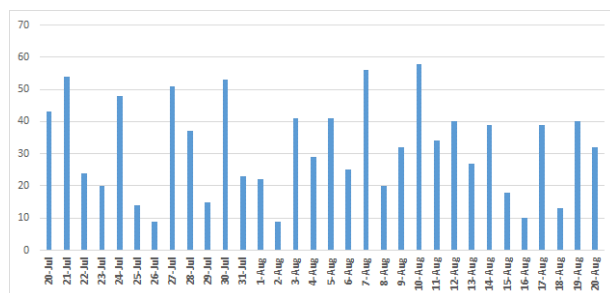


Fig 20: Non-COVID-19 inpatient discharge at TASH (20th July-20th Aug, 2020) Source: TASH-HMIS.

9. TASH Chronic Disease Clinic Performance

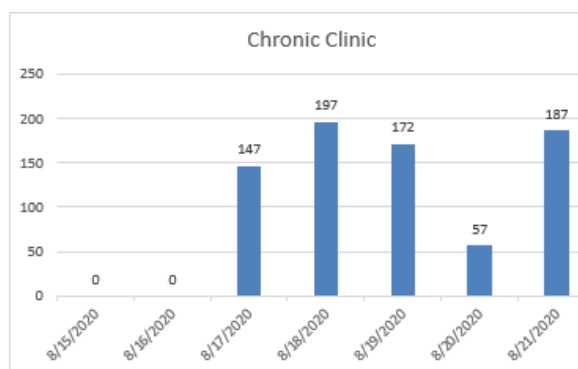


Fig 21. Non-COVID-19 clients visited the Chronic Clinic (HPN, DM CVD, Asthma) at TASH (**this week**) Source: TASH-HMIS.

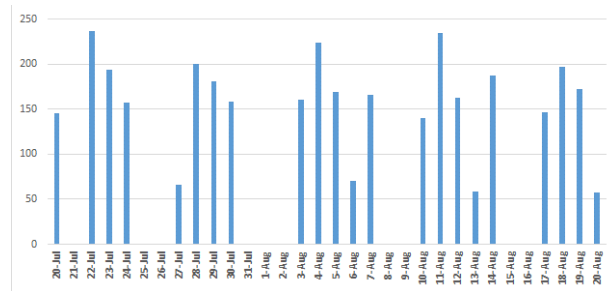


Fig 22: Non-COVID-19 client visited the Chronic Clinic (HPN, DM CVD, and Asthma) at TASH (20th July-20th Aug, 2020) Source: TASH-HMIS.

2. CHS/TASH COVID Preparedness and Response Updates

Incident Management

- There is build up of cases among TASH staff and all staff are required to follow advise from contact tracing and testing teams
- Critical COVID-19 patients transfer delaying due to shortage of ICU equipped ambulances and shortage of bed in COVID- centers.
- Orthopedics working on dedicated Orthopedics COVID-19 ward, regional anesthesia and use of viral filter in operating COVID 19 cases.

Infection Prevention and Control

- Each department/unit should follow IPC procedures, IPC team should work with orthopedics and other team to implement IPC measures particularly limiting number of patient visitors/attendants.
- Protocol for disinfection in the hospital environmental is under preparation by the IPC team.
- Individual units took up on the assignment to ensure adequate bed spacing and limit the number of attendants is ensured in their specific wards.
- Despite successful distribution for health care workers, there is a need to monitor appropriate use of PPE.

Case Management

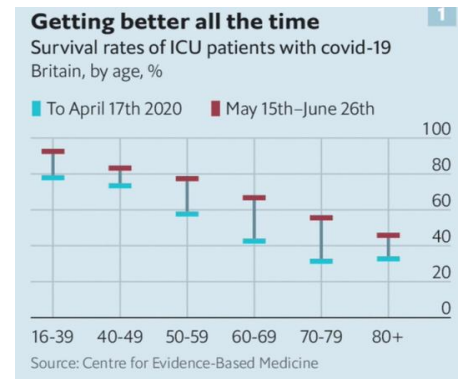
- Case management, isolation, supervision and IPC team working on how to mobilize monitor and utilize available machine to improve care for critical COVID-19 cases.
- The university bio-medical team has been supporting maintenance of the biomedical equipment's such as ICU monitor and machine and suggested to further enhance the collaboration.
- As the number of cases increasing, mentioned to ensure pre and post-test counseling not to be overlooked
- Pediatrics team presented updates with regard to clustering pediatric COVID-19 infectious.
- Orthopedics team presented surgery updates, mentioned that test result turnaround and patient transfer time is improving except for critical cases.

Laboratory Services

- Test kits, extraction kits shortage resolved following procurement nationally by MOH
- Case management team working on the description profiles of cases to identify clustering of cases in different departments.

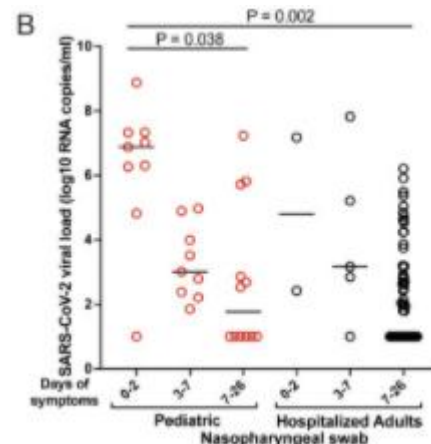
3. Important COVID Related Research Updates and Resources

- A. Impressive reduction of mortality achieved during the pandemic for patients admitted to the ICU according to the Intensive Care National Audit & Research Centre data from the UK. <https://www.preprints.org/manuscript/202008.0267/v1>



- B. Nasopharyngeal viral load was significantly higher in children than hospitalized adults with severe disease ($P = .002$). "Children may be a source of contagion in the SARS-CoV-2 pandemic in spite of milder disease or lack of symptoms."

Pediatric SARS-CoV-2: Clinical Presentation, Infectivity, and Immune Responses. [https://www.jpeds.com/article/S0022-3476\(20\)31023-4/fulltext](https://www.jpeds.com/article/S0022-3476(20)31023-4/fulltext)





- C. An excellent summary of the evidence for and against the routes of transmission of SARS-CoV-2.

https://docs.google.com/presentation/d/11rY9tQtKFaV_M4N-hf5qp1_Xtuw8JYb4Qvv5e7BEmcc/edit#slide=id.p

Summary of Evidence vs. Modes of Transmission

	Droplets	Fomites	Aerosols
Outdoors << Indoors	X	✓	✓✓
Similar viruses demonstrated	X	✓	✓
Animal models	X	✓	✓
Superspreading events	X	X	✓✓
Importance of close proximity	✓	X	✓✓
Consistency of close prox. & room-level	X	X	✓
Physical plausibility	X	✓	✓
Impact of reduced ventilation	X	X	✓
Virus infectivity demonstrated	X	X	✓
"Droplet" PPE works reasonably	✓	n/a	✓

Only including the items that could bear on multiple pathways

- D. COVID-19 in 7780 pediatric patients: A systematic review.

[https://www.thelancet.com/journals/eclinm/article/PIIS2589-5370\(20\)30177-2/fulltext](https://www.thelancet.com/journals/eclinm/article/PIIS2589-5370(20)30177-2/fulltext)

4. List of Essential National and Institutional COVID Contacts

- **EPHI/FMOH:** Tel. 011276 5340;
Emails: ephieoc@gmail.com;
phemdatacenter@gmail.com
- **EPHI COVID Notification and Information Centre:**
Toll Free numbers: 8335 or 982 or 444
- **CHS CED:** Dr Dawit Wondimagegn;
Email: dawit.wondimagegn@gmail.com
- **TASH Clinical Services Director:**
Dr. Yirgu G/Hiwot;
Email: yirgug@yahoo.com
- **TASH Emergency Directors/ Coordinators:**
Dr. Hywet Engida/ Sr.Aster mulugeta;
Email: hywetengeda@gmail.com;
Tel.0911656551/0911061837
- **TASH COVID Isolation Leader:**
Dr Wondwosen Amogne;
Email: wonamogne@yahoo.com
Tel. 0911406179
- **Hospital COVID Isolation and Hospital Head Nurse**
Sr. Aselefech Negao: Tel 0911183277
- **Hospital IPC Leads:**
Tewodros Asmare/ Feyissa Regassa; Tel. 0913151452; 0941334837
- **TASH -EOC:**
Dr Adamu Addissie/Abdulnasir Abagero;
Tel. 0911404954; 0911806475
Email: tash.eoc@aau.edu.et

