

Curriculum Vitae

1. Personal Information

Name: Prof. Dr. rer. med. Belay Tessema Belay
Date of Birth: April 29, 1980
Place of Birth: Finoteselam, Gojjam,
Nationality: Ethiopian
Language: Amharic, English and German (B2)
Current Address: Institute of Clinical Immunology,
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2. Education and work experience

Year	Position	Institution	City, Country
Since August 2023	Senior Scientist	Magdeburg Molecular Detections (MMD) GmbH	Magdeburg, Germany
Since Jan. 2023 – June 2023	Quality Manager and Scientific Writer	Immundiagnostik AG	Bensheim, Germany
Oct. 2022-Dec. 2022	Scientist	Medical s/p/e GmbH/ Institute of Clinical Immunology, University of Leipzig	Leipzig, Germany
June 2021- Sep 2022	Visiting Scientist (Alexander von Humboldt foundation Georg Forster Research Award Winner Research Stay)	Institute of Clinical Immunology, University of Leipzig	Leipzig, Germany
Since April 2021	Scientist	CellAir Construction (Cellgym) GmbH	Schorndorf, Germany
Since Dec. 2020.	Full Professor of Medical Microbiology and Epidemiology of Infectious Diseases	Department of Medical Microbiology, University of Gondar	Gondar, Ethiopia
Nov 2017-April 2018	Advanced Clinical Research Operations for study coordinators Trainee (Virtual and Face to Face training)	Strathmore University, Kenya; University of Siena, Italy and Faculty of Capacity Development (FCD)	Nairobi, Kenya; and University of Siena, Italy
Since Aug. 2017	Scientist/Guest Scientist/ Visiting Scientist/ Guest Scientist	Institute of Clinical Immunology and Institute of Medical Microbiology	University of Leipzig, Germany
Dec.2015- Dec.2016	Postdoctoral Fellow (TDR/WHO Clinical Research and Development fellowship program)	Foundation for Innovative New Diagnostics (FIND)	Geneva, Switzerland
July 2015-Dec. 2020.	Associate Professor of Medical Microbiology and Epidemiology of Infectious Diseases	Department of Medical Microbiology, University of Gondar	Gondar, Ethiopia
July 2012- July 2015.	Assistant Professor of Medical Microbiology and Epidemiology of Infectious Diseases	Department of Medical Microbiology, University of Gondar	Gondar, Ethiopia
June 2008 – July 2012	Doctoral (PhD) student in Medical Microbiology, Epidemiology of Infectious Diseases and Clinical Immunology (<i>Summa cum laude (Excellent) grade</i>)	Institute of Medical Microbiology, Epidemiology of Infectious Diseases and Clinical Immunology , University of Leipzig	Leipzig, Germany

April 2007 - May 2008	Lecturer	Department of Medical Laboratory Technology, University of Gondar.	Gondar, Ethiopia
Sept 2005 – April 2007	Master of Sciences (MSc) student in Tropical and Infectious Diseases	Aklilu Lemma Institute of Pathobiology, Addis Ababa University	Addis Ababa, Ethiopia
July 2004 - Aug 2005.	Assistant lecturer	Department of Medical Laboratory Technology, University of Gondar	Gondar, Ethiopia
July 2003 - June 2004	Graduate Assistant II	Department of Medical Laboratory Technology, University of Gondar	Gondar, Ethiopia
Sept.2000 – July 2003	Bachelor of Sciences (BSc) student in Medical Laboratory Technology	Department of Medical Laboratory Technology	Jimma, Ethiopia
Oct. 1998 - Aug 2000	Technical Assistant	Department of Medical Laboratory Technology, Gondar College of Medical Sciences	Gondar, Ethiopia
Sept. 1996 – Sept. 1998	Diploma Student in Laboratory Technology	Gondar College of Medical Sciences	Gondar, Ethiopia

3. Leadership experience

1. Jan. 2016 – Dec 2020. **Country (Ethiopia) Coordinator** for International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) Task Force of Young Scientists
2. Nov 2013 - Dec 2015. **Head**, School of Biomedical and Medical Laboratory Sciences, College of Medicine and Health Science, University of Gondar, Ethiopia.
3. Jan. 2013 - Jul 2017. **Coordinator**, One Health Research Consortium of University of Gondar, Ethiopia
4. Dec. 2012 – Nov. 2013. **Director**, Postgraduate Programs of University of Gondar, Ethiopia

4. Board/Council member

1. Since Feb. 2020 to date. **Research Grant Review Committee Member**, International Society for Infectious Diseases (ISID), USA.
2. Since Feb. 2020 to date. **Council Member**, International Society for Infectious Diseases (ISID), USA.
3. Since Sept. 2020 to date. **Strategic Advisory Council member**, Amhara Public Health Institute (APHI), Ethiopia.
4. Since July 2018 to date. **Clinical Review Committee (CRC) member**, Drug Resistant Tuberculosis in Amhara regional State Health Bureau, Ethiopia
5. April 2014 - Mar. 2018. **Founder and Executive Board Member** of Ethiopian Society for Microbiology, Ethiopia.
6. Jun 2014 – May 2018. **Executive Board Member** of Ethiopian Medical Laboratory Association, Ethiopia. Since May 2014 to date.
7. **Corresponding Member** of International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) Committee on Clinical Laboratory Management (C- CLM).

5. Scientific Journal Editor

1. Since Sept. 2022. **Editorial Board-Topical Advisory panel member** of International Journal of Molecular Sciences
2. Since Nov. 2020: **Associate Editor** of German Journal of Microbiology
3. Since Sept 2020: **Associate Editor** of Ethiopian Journal of Health and Biomedical Sciences
4. Sept 2014 - Dec 2018 **Editor in-Chief** of Ethiopian Journal of Laboratory Medicine

6. Awards/Honours

1. 2021: **Recognition for high contribution to science**, Ethiopian Medical Laboratory Association (EMLA), Ethiopia
2. 2020: **Georg Forster Research Award**, Alexander von Humboldt Foundation, Germany.
<https://www.humboldt-foundation.de/en/explore/newsroom/awards-for-researchers-from-developing-and-transition-countries>
3. 2020: **TDR Global Profile**, TDR/World Health Organization: Geneva, Switzerland
<https://tdr.who.int/newsroom/feature-stories/item/belay-tessema>
4. 2017: **Great achievement award in fetching Grants**: University of Gondar, Ethiopia.
5. 2016: **Young Public Health Researcher Award**: Ethiopian Public Health Association (EPHA).
<https://www.etpha.org/item/568-epha-recognizes-individuals-and-institutions.html>
6. 2015: **Clinical Research and Development Fellowship Award**: EDCTP/TDR, Geneva, Switzerland
7. 2015: **The best researcher award**: College of Medicine and Health Sciences, University of Gondar, Ethiopia.
8. 2008. **PhD scholarship Award**: German Academic Exchange Service (DAAD), Bonn, Germany
9. 2003: **The best students` research award**: Jimma University, Ethiopia.
10. 1998: **The best student award**: Gondar College of Medical Sciences, Ethiopia.

7. Research/ Capacity building Grants

I have won 19 research and capacity building grants. Some of the grants are:

1. Co-Investigator and Co-lead of a sub-theme Diagnostics: **2018- 2022: NIH Fogarity D43 grant** for the project „Sustainable One Health Research -Training Capacity: Molecular Epidemiology of Zoonotic Foodborne and Waterborne Pathogens in Eastern Africa“
2. Principal Investigator: **2017-2018. USAID/MSH/Challenge TB Research Grant award** for the project “Investigation of the low tuberculosis case detection rate and treatment challenges in Amhara region, Ethiopia: a capture-recapture study“
3. Principal Investigator: **2017- 2019. University of Gondar Research Grant award** for the project „ Utilization of Novel Diagnostics and Genotyping to improve the Diagnosis and Molecular Epidemiology of Human and Bovine Tuberculosis“
4. Co- Investigator and Coordinator: **2014/2015. Ohio State University, USA-CCTS Research grant award** for the project “ Improving the diagnosis of *M. tuberculosis* and *M. bovis*“
5. Coordinator : **2014/2015. EDCTP/MMV capacity building grant award** for the project „Building malaria research capacities in Gondar - the collaborative effort of the University of Gondar and the Medical University of Vienna“
6. Principal Investigator : **2014/2015.USAID/MSH/Heal TB research grant award** for the project “Assessment of the performance of medical laboratory professionals in Fine-Needle Aspiration Cytology to diagnosis TB Lymphadenitis“
7. Principal Investigator : **2013.USAID/MSH/Heal TB research grant award** for the project “ Improving tuberculosis case detection through Contact Investigation of Smear Positive tuberculosis patients in Amhara Region, Northwest Ethiopia, Ethiopia“
8. Co-Investigator: **2013-2014. GlaxoSmithKline(GSK) research grant award** for the project “Malaria clinical trial for the new anti-malaria drug (Tafenoquine) at the University of Gondar“.

8. Oral and Poster Presentations in the last 10 years

I have presented a total of 14 presentations, 10 oral and 4 poster presentations in international and national scientific conferences and workshops in the last 10 years. Some of my presentations are:

- 1.Oral: Detection of Intracellular *Mycobacterium tuberculosis* bacteria and its specific antigen from phagocytes of blood and sputum using Modified Microscopy and Flow Cytometry. University of Leipzig, Germany. December 19, 2019.
- 2.Oral: TB Diagnostics: Update on recent advances and future ambitions. Continious Profesional Development (CPD) training workshop for Medical Laboratory Professionals in Ethiopia. Grand Hotel, BahirDar, Ethiopia. June 28- July 01, 2017

- 3.Oral: Oral: Molecular epidemiology and transmission dynamics of Mycobacterium tuberculosis in Northwest Ethiopia: *International Symposium for Biomedical Sciences*, Korea University College of Medicine, Seoul, South Korea; January 28- 30, 2015.
- 4.Oral; Utilization of new tools to improve diagnosis of *Mycobacterium tuberculosis* and *M. bovis* and TB control in a pastoralist community; The first IGAD Health Conference; Addis Ababa, Ethiopia; 3-6 December 2014
- 5.Oral; Molecular epidemiology and transmission dynamics of Mycobacterium tuberculosis in Northwest Ethiopia: New phylogenetic lineages found in Ethiopia; Conference on Infectious Diseases; Leipzig, Germany; 30 May 2012
- 6.Poster; High yield of contact investigation among household contacts of smear positive pulmonary tuberculosis patients using GeneXpert MTB/RIF in Ethiopia; 45th Union World Conference on tuberculosis and Lung Health; Barcelona, Spain; 28 October- 1 November 2014
- 7.Poster; First and second-line anti-tuberculosis drugs resistance among tuberculosis patients in Northwest Ethiopia; The 9th National TB Research Advisory Committee (TRAC) Annual Conference; Hawassa, Ethiopia; 21-24 March 2014

9. Teaching and advisership experience

I have been teaching PhD and MSc students in Medical Microbiology, and undergraduate Medical and Health science students. I taught Molecular Microbiology, General Microbiology, Medical Bacteriology, Virology, Mycology and Immunology courses for both postgraduate and undergraduate students. I have supervised 15 PhD Students' dissertations and more than 30 MSc students' research thesis.

10. WHO Policy guidance and policy update contribution/ participation

1. WHO Policy guidance. The use of molecular line probe assays for the detection of resistance to second-line anti- tuberculosis drugs. World Health Organization 2016: Geneva, Switzerland
2. WHO Policy Update: The use of molecular line probe assays for the detection of resistance to Isoniazid and Rifampicin. World Health Organization 2016: Geneva, Switzerland
3. WHO: Chest radiography in tuberculosis detection – summary of current WHO recommendations and guidance on programmatic approaches. World Health Organization 2016: Geneva, Switzerland
4. Guideline Development Group (GDG) Meeting to develop consolidated policy guidance on anti-TB drug susceptibility testing. Montreux, Switzerland ,February 29th – March 4th 2016

11. Skills

1. IVDR Quality Management and Regulatory affairs
2. Clinical research and development (clinical trial protocol development, trial coordination, and Trial Management)
3. Project management
4. Grant proposal writing and manuscript writing
5. Systematic review and Meta-analysis
6. Microbiological techniques such as microscopy, culture and drug susceptibility testing (DST)
7. Molecular biology techniques such as PCR, Sequencing and genotyping.
8. Immunological techniques such as Cell Isolation, Cell culture, Flow cytometry, ELISA and Intracellular staining
9. Parasitological techniques including malaria diagnosis (microscopy, RDT and molecular techniques)
10. Statistical analysis (Excel, SPSS, and STATA)
11. Teaching and advising /supervising PhD and MSc students and mentoring postdoc and junior Researchers.

12. Membership of Organizations/Society

1. European Society for Mycobacteriology (ESM)
2. American Society for Microbiology (ASM)
3. International Society for Infectious Diseases (ISID)
4. Ethiopian Medical Laboratory Association (EMLA) (life time Member)
5. Ethiopian Public Health Association (EPHA) (life time Member)
6. Ethiopian Society for Microbiology (ESM)

13. References

1. Prof. Dr. Brigitte König:

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2. Prof. Dr.med. Ulrich Sack :

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14. List of publications

My name is mentioned in my publications as Belay Tessema OR Tessema B.

My electronic complete lists of publications are found in the following NCBI and Research Gate links:

https://www.researchgate.net/profile/Belay_Tessema2/publications

<https://www.ncbi.nlm.nih.gov/myncbi/1x56RQqGxahAX/bibliography/public/>

1. Engda T, **Tessema B**, Mesifin N, Nuru A, Belachew T, Moges F. Shiga toxin-producing Escherichia coli O157:H7 among diarrheic patients and their cattle in Amhara National Regional State, Ethiopia. PLoS One. 2023;18(12):e0295266. doi: 10.1371/journal.pone.0295266. eCollection 2023. PubMed PMID: 38127993; PubMed Central PMCID: PMC10734908.
2. Damtie D, Gelaw A, Wondimeneh Y, Aleka Y, Tarekegn ZS, Sack U, Vlasova AN, **Tessema B**. Evaluation of the diagnostic performance of EpiTuub® Fecal Rotavirus Antigen Rapid Test Kit in Amhara National Regional State, Ethiopia: A multi-center cross-sectional study. PLoS One. 2023;18(11):e0295170. doi: 10.1371/journal.pone.0295170. eCollection 2023. PubMed PMID: 38033097; PubMed Central PMCID: PMC10688889.
3. **Tessema B**, Haag J, Sack U, König B. The Determination of Mitochondrial Mass Is a Prerequisite for Accurate Assessment of Peripheral Blood Mononuclear Cells' Oxidative Metabolism. Int J Mol Sci. 2023 Oct 2;24(19). doi: 10.3390/ijms241914824. PubMed PMID: 37834272; PubMed Central PMCID: PMC10573504.
4. Gessner P, **Tessema B** (Shared 1st author), Scholz M, Sack U, Boldt A, Kühnapfel A, Gessner C. The influence of anti-cancer therapies on lymphocyte subpopulations of lung cancer patients. Front Immunol. 2023;14:1239097. doi: 10.3389/fimmu.2023.1239097. eCollection 2023. PubMed PMID: 37701442; PubMed Central PMCID: PMC10493868.

5. Shibabaw A, Gelaw B, Ghanem M, Legall N, Schooley AM, Soehnen MK, Salvador LCM, Gebreyes W, Wang SH, **Tessema B**. Molecular epidemiology and transmission dynamics of multi-drug resistant tuberculosis strains using whole genome sequencing in the Amhara region, Ethiopia. *BMC Genomics*. 2023 Jul 17;24(1):400. doi: 10.1186/s12864-023-09502-2. PubMed PMID: 37460951; PubMed Central PMCID: PMC10351181.
6. Ferede G, Tiruneh M, Abate E, Wondimeneh Y, **Tessema B** (shared last author), Lieber UG. Distribution of Dengue Virus Serotype Based on Neutralization Assay in Northwest Ethiopia. *EJHBS*: 2023; 13
7. Akalu GT, **Tessema B**, Petros B. High proportion of RR-TB and mutations conferring RR outside of the RRDR of the rpoB gene detected in GeneXpert MTB/RIF assay positive pulmonary tuberculosis cases, in Addis Ababa, Ethiopia. *PLoS One*. 2022 Dec 30;17(12):e0277145. doi: 10.1371/journal.pone.0277145. PMID: 36584037; PMCID: PMC9803184.
8. **Tessema B**, Janine R, Sack U, König B. Cellular Stress Assay in Peripheral Blood Mononuclear Cells: Factors Influencing Its Results. *Int J Mol Sci*. 2022 Oct 28;23(21):13118. doi: 10.3390/ijms232113118.
9. Wasson MK, Whitson C, Miller B, Abebe W, **Tessema B**, Emerson LE, Anantharam P, Tesfaye AB and Fairley JK. Potential drivers of leprosy infection: A case–control study of parasitic coinfection and water, sanitation, and hygiene in North Gondar, Ethiopia. *Front. Trop. Dis*. 2022; 3:934030. doi: 10.3389/fitd.2022.934030
10. Mesfin EA, Merker M, Beyene D, Tesfaye A, Shuaib YA, Addise D, **Tessema B**, Niemann S. Prediction of drug resistance by Sanger sequencing of Mycobacterium tuberculosis complex strains isolated from multidrug resistant tuberculosis suspect patients in Ethiopia. *PLoS One*. 2022 Aug 5;17(8):e0271508. doi: 10.1371/journal.pone.0271508. eCollection 2022.
11. Kyu HH, Vongpradith A, Sirota SB, ... **Tessema B**, ... Murray CJL. Age-sex differences in the global burden of lower respiratory infections and risk factors, 1990-2019: results from the Global Burden of Disease Study 2019. *Lancet Infect Dis*. 2022 Aug 11:S1473-3099(22)00510-2. doi: 10.1016/S1473-3099(22)00510-2.
12. **Tessema B**, Boldt A, König B, Maier M, Sack U. Flow-Cytometry Intracellular Detection and Quantification of HIV1 p24 Antigen and Immunocheckpoint Molecules in T Cells among HIV/AIDS Patients. *HIV AIDS (Auckl)*. 2022 Aug 4;14:365-379. doi: 10.2147/HIV.S374369. eCollection 2022.
13. Tilaye T, **Tessema B**, Alemu K. High asymptomatic malaria among seasonal migrant workers departing to home from malaria endemic areas in northwest Ethiopia. *Malar J*. 2022 Jun 11;21(1):184. doi: 10.1186/s12936-022-04211-9.
14. Shimekaw M, Tigabu A, **Tessema B**. Bacterial Profile, Antimicrobial Susceptibility Pattern, and Associated Risk Factors Among Patients With Wound Infections at Debre Markos Referral Hospital, Northwest, Ethiopia. *Int J Low Extrem Wounds*. 2022 Jun;21(2):182-192. doi: 10.1177/1534734620933731. Epub 2020 Jun 28. PMID: 32594808
15. Shuaib YA, Utpatel C, Kohl TA, Barilar I, Diricks M, Ashraf N, Wieler LH, Kerubo G, Mesfin EA, Diallo AB, ... **Tessema B** ... Merker M. Origin and Global Expansion of Mycobacterium tuberculosis Complex Lineage 3. *Genes* 2022, 13, 990. <https://doi.org/10.3390/genes13060990>
16. **Tessema B**, Sack U, König B, Serebrovska Z and Egorov E. Effects of Intermittent Hypoxia Training Regimes and in Obstructive Sleep Apnea on Aging Biomarkers and Age-Related Diseases: A Systematic Review. *Front. Aging Neurosci*. 2022;14:878278. doi:10.3389/fnagi.2022.878278
17. Assefa M, Tigabu A, Belachew T, **Tessema B**. Bacterial profile, antimicrobial susceptibility patterns, and associated factors of community-acquired pneumonia among adult patients in Gondar, Northwest Ethiopia: A cross-sectional study. *PLoS One*. 2022;17(2):e0262956. doi: 10.1371/journal.pone.0262956.

18. **Tessema B**, Sack U, Serebrovska Z, König B and Egorov E . Effects of Hyperoxia on Aging Biomarkers: A Systematic Review. *Front. Aging.* 2022;2:783144. doi: 10.3389/fragi.2021.783144
19. Ledesma JR, Ma J, Vongpradith A, ... **Tessema B**, ... Kyu HH. Global, regional, and national sex differences in the global burden of tuberculosis by HIV status, 1990-2019: results from the Global Burden of Disease Study 2019. *Lancet Infect Dis.* 2022 Feb;22(2):222-241. doi: 10.1016/S1473-3099(21)00449-7. Epub 2021 Sep 23. PubMed PMID: 34563275; PubMed Central PMCID: PMC8799634.
20. Getie B, Ayalew G, Amsalu A, Ferede G, Yismaw G, **Tessema B**. Seroprevalence and Associated Factors of Hepatitis B and C Virus Among Pulmonary Tuberculosis Patients Attending Health Facilities in Gondar Town, Northwest Ethiopia. *Infect Drug Resist.* 2021;14:3599-3608. doi: 10.2147/IDR.S327503. eCollection 2021. PubMed PMID:
21. Melku M, Ambachew S, Enawgaw B, Abebe M, Abebe Z, Deressa T, Damtie D, Biadgo B, **Tessema B**, Geremew D, Kebede A, Woldu B, Teklu T, Shiferaw E. Sero-epidemiology and associated factors of HIV, HBV, HCV and syphilis among blood donors in Ethiopia: a systematic review and meta-analysis. *BMC Infect Dis.* 2021 Aug 9;21(1):778. doi: 10.1186/s12879-021-06505-w. PubMed PMID: 34372772; PubMed Central PMCID: PMC8351159.
22. Yigzaw WB, Torrelles JB, Wang SH, **Tessema B**. Magnitude of Phenotypic and MTBDRplus Line Probe Assay First-Line Anti-Tuberculosis Drug Resistance Among Tuberculosis Patients; Northwest Ethiopia. *Infect Drug Resist.* 2021;14:497-505. doi: 10.2147/IDR.S292058.
23. Sharew B, Moges F, Yismaw G, Mihret A, Abebe W, Fentaw S, **Tessema B**. Serotype Distribution of *Streptococcus pneumoniae* Isolates Causing Invasive and Non-Invasive Infections Using Whole-Genome Sequencing in Ethiopia. *Infect Drug Resist.* 2021;14:787-794. doi: 10.2147/IDR.S293578. eCollection 2021. PubMed PMID: 33688213; PubMed Central PMCID: PMC7936710.
24. Wondimeneh Y, Tiruneh M, Ferede G, **Tessema B**. Diagnostic performance of SD Bioline immunochromatography test for the detection of rubella specific IgM and IgG antibodies in resource limited settings. *Ethiop. J. Health Biomed Sci., Sept. 2021. Vol.11, No.1.*
25. Sartorius B, VanderHeide JD, Yang M,.. **Tessema B**, ...Dwyer-Lindgren L. Subnational mapping of HIV incidence and mortality among individuals aged 15-49 years in sub-Saharan Africa, 2000-18: a modelling study. *Lancet HIV.* 2021 Jun;8(6):e363-e375. doi: 10.1016/S2352-3018(21)00051-5.
26. Ferede G, Tiruneh M, Abate E, Wondimeneh Y, Gadisa E, Howe R, Aseffa A, **Tessema B**. Evaluation of the Performance of the SD Bioline Dengue Rapid Test for the Detection of Anti-Dengue IgM Antibody in Northwest Ethiopia. *Ethiop. J. Health Biomed Sci., Sept. 2021. Vol.11, No.1.*
27. Tilaye T, **Tessema B**, Alemu K. Malaria Infection is High at Transit and Destination Phases Among Seasonal Migrant Workers in Development Corridors of Northwest Ethiopia: A Repeated Cross-Sectional Study. *Res Rep Trop Med.* 2021;12:107-121. doi: 10.2147/RRTM.S306001.
28. Yigzaw WB, Torrelles JB, Wang SH, **Tessema B**. Accuracy on diagnostic performance of point of care LIODetect® tb-st rapid test for the diagnosis of PTB in northwest Ethiopia. *Ethiop. J. Health Biomed Sci., Sept. 2021. Vol.11, No.1.*
29. Taye S, Tigabu Z, Damtie D, Yismaw G, Moodley C, Nicol MP, **Tessema B**, Gelaw B, Moges F. Pertussis among patients with clinically compatible illness in the Amhara Regional State, Ethiopia. *Int J Infect Dis.* 2021 May;106:421-428. doi: 10.1016/j.ijid.2021.03.073. Epub 2021 Mar 29. PubMed PMID: 33794378.

30. Abebe M, Eshetie S, **Tessema B**. Prevalence of sexually transmitted infections among cervical cancer suspected women at University of Gondar Comprehensive Specialized Hospital, North-west Ethiopia. *BMC Infect Dis*. 2021 Apr 23;21(1):378. doi: 10.1186/s12879-021-06074-y.
31. Sharew B, Moges F, Yismaw G, Abebe W, Fentaw S, Vestrheim D, **Tessema B**. Antimicrobial resistance profile and multidrug resistance patterns of *Streptococcus pneumoniae* isolates from patients suspected of pneumococcal infections in Ethiopia. *Ann Clin Microbiol Antimicrob*. 2021 Apr 20;20(1):26. doi: 10.1186/s12941-021-00432-z.
32. Tadese ND, Gebremedhi EZ, Moges F, Borana BM, Marami LM, Sarba EJ, Abebe H, Kelbesa KA, Atalel D, **Tessema B**. Occurrence and Antibiogram of *Escherichia coli* O157 :H7 in Raw Beef and Hygienic Practices in Abattoir and Retailer Shops in Ambo Town, Ethiopia. *Vet Med Int*. 2021;2021:8846592. doi: 10.1155/2021/8846592. eCollection 2021. PubMed PMID: 33868629; PubMed Central PMCID: PMC8032542.
33. **Tessema B**, Lippmann N, Knüpfer M, Sack U, König B. Antibiotic Resistance Patterns of Bacterial Isolates from Neonatal Sepsis Patients at University Hospital of Leipzig, Germany. *Antibiotics* 2021, 10, x. <https://doi.org/10.3390/xxxxx>
34. Sbarra AN, Rolfe S, Nguyen JQ,... **Tessema B**, ... Mosser JF. Mapping routine measles vaccination in low- and middle-income countries. *Nature*. 2021 Jan; 589 (7842):415-419. doi:10.1038/s41586-020-03043-4.
35. **Tessema B**, Lippmann N, Willenberg A, Knüpfer M, Sack U, König B. The Diagnostic Performance of Interleukin-6 and C-Reactive Protein for Early Identification of Neonatal Sepsis. *Diagnostics*. 2020 Nov 20;10(11). doi: 10.3390/diagnostics10110978. PubMed PMID: 33233806; PubMed Central PMCID: PMC7699903.
36. Taye S, **Tessema B**, Gelaw B, Moges F. 2020. Assessment of Pertussis Vaccine Protective Effectiveness in Children in the Amhara Regional State, Ethiopia, *Int J Microbiol*. 2020 Oct 13;2020:8845835. doi: 10.1155/2020/8845835. eCollection 2020.
37. Kirsten E Wiens, Paulina A Lindstedt,..**Tessema B**,.. Robert C Reiner Jr. Mapping geographical inequalities in oral rehydration therapy coverage in low-income and middle-income countries, 2000-17. *Lancet Glob Health*. 2020 Aug;8(8):e1038-e1060. doi: 10.1016/S2214-109X(20)30230-8. PubMed PMID: 32710861; PubMed Central PMCID: PMC7388204.
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39. Geremew D, Melku M, Endalamaw A, Woldu B, Fasil A, Negash M, Baynes HW, Geremew H, Teklu T, Deressa T, **Tessema B**, Sack U. Tuberculosis and its association with CD4⁺ T cell count among adult HIV positive patients in Ethiopian settings: a systematic review and meta-analysis. *BMC Infect Dis*. 2020 May 7;20(1):325. doi: 10.1186/s12879-020-05040-4. PubMed PMID: 32380957; PubMed Central PMCID: PMC7204319.
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- Comprehensive Specialized Hospital, Northwest Ethiopia. *BMC Infect Dis.* 2020 Jan 13;20(1):35. doi: 10.1186/s12879-020-4776-7.
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 43. Admas A, Gelaw B, **Tessema B**, Worku A, Melese A. Proportion of bacterial isolates, their antimicrobial susceptibility profile and factors associated with puerperal sepsis among post-partum/aborted women at a referral Hospital in Bahir Dar, Northwest Ethiopia. *Antimicrob Resist Infect Control.* 2020 Jan 13;9(1):14. doi: 10.1186/s13756-019-0676-2.
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