



Shemsedin Amme Ibro

Researcher | Educator | Healthcare Innovator

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Education

Master of Science (MSc), Emergency Medicine and Critical Care Nursing

Addis Ababa University, Addis Ababa, Ethiopia

2016

Thesis: Disaster preparedness among government hospitals in Addis Ababa city, Ethiopia.

Bachelor of Science (BSc), Nursing

Jimma University, Jimma, Ethiopia

2010 - 2014

Note: GPA: 3.85

Teaching & Institutional Service

- Delivering Engaging Lectures: Design and present comprehensive lectures to both undergraduate and postgraduate nursing students, fostering a stimulating learning environment.
- Mentoring Future Researchers: Provide dedicated mentorship and supervision to undergraduate and postgraduate nursing students throughout their research endeavors, guiding them towards successful project completion.
- Engaging in University and Community Life: Actively contribute to a range of extra-curricular activities, including participation in university governance, providing valuable community services within Jimma city, and engaging in initiatives at the national level.
- Launched Emergency and Critical Care Nursing Master's Program: Proposed and directed the curriculum development and subsequent successful launch of the Master's program in Emergency and Critical Care Nursing at the School of Nursing, Jimma University (January 2022 – July 2022), significantly enhancing specialized nursing education.
- Launch of MSc in Emergency & Critical Care Nursing Program: Initiated and led the curriculum development process (Jan-Jul 2022) resulting in the successful launch of the Master of Science program in Emergency and Critical Care Nursing at the School of Nursing, Jimma University.
- Development of BSc in Paramedicine Program: Proposed and currently leading the ongoing development and planned launch (started Sep 2025) of the Bachelor of Science program in Paramedicine within the School of Nursing, Jimma University.

Professional Positions Held

Lecturer & Researcher

Jimma University, School of Nursing & Midwifery

2015 - Present | Jimma, Ethiopia

- Delivering Engaging Lectures: Design and present comprehensive lectures to both undergraduate and postgraduate nursing students, fostering a stimulating learning environment.
- Contributing to Research: Actively participate in the conceptualization and execution of impactful research projects within the nursing discipline.
- Mentoring Future Researchers: Provide dedicated mentorship and supervision to undergraduate and postgraduate nursing students throughout their research endeavors, guiding them towards successful project completion.
- Engaging in University and Community Life: Actively contribute to a range of extra-curricular activities, including participation in university governance, providing valuable community services within Jimma city, and engaging in initiatives at the national level.

Key Achievements:

- Pioneered Prehospital Care Systems: Developed and successfully implemented an innovative model for establishing effective prehospital care systems specifically adapted for resource-limited settings, with a primary focus on Ethiopia.
- Established Aayyoo Ambulance Service: Conceived and spearheaded the establishment of the Aayyoo Ambulance service (www.ayo.ju.edu.et) in Jimma city, a groundbreaking initiative as Ethiopia's first public ambulance organization utilizing a hybrid-EMS framework.
- Developed First National EMS CAD System: Proposed and led the development and implementation of a Computer-Aided Dispatch (CAD) system for the Aayyoo Ambulance dispatch center, marking the first deployment of such technology within Ethiopia's emergency medical services.
- Launched Emergency and Critical Care Nursing Master's Program: Proposed and directed the curriculum development and subsequent successful launch of the Master's program in Emergency and Critical Care Nursing at the School of Nursing, Jimma University (January 2022 – July 2022), significantly enhancing specialized nursing education.
- Received National Recognition for Healthcare Impact: Awarded national recognition for exceptional contributions to the advancement of emergency and critical care, particularly for the foundational role in establishing Aayyoo Ambulance and implementing impactful improvements within the Emergency Department and Intensive Care Unit at Jimma University Medical Centre.
- Awarded Certificate of Excellence: Received a certificate of excellence in acknowledgment of sustained and significant contributions to the ongoing improvement of emergency and critical care services across Ethiopia.

Investigator

Research Center for Road and Transport Safety

Jan 2022 - Dec 2024 | Jimma University, Jimma, ET

- Design and execute research projects

Program management team member

Major City Emergency and Critical Care Improvement Program (ME-CIP) - Collaborative program of Ethiopian Ministry of Health, Jimma University and Jimma City Health Office

July 2021 - Feb 2024 | Jimma ET

- Plan, execute and monitor program interventions.

Program Coordinator

Major City Emergency and Critical Care Improvement Program (ME-CIP) - Collaborative program of Ethiopian Ministry of Health, Jimma University and Jimma City Health Office

July 2020 - July 2021 | Jimma, ET

- Implemented in Jimma City, ET

Publications

Ibro, Shemsedin Amme; Kasim, Ahmed Zeynudin; Seid, Sheka Shemsi; Abdusemed, Kedir Abdella; Senbiro, Ismael Ahmed; Waga, Sultan Suleman; Abamecha, Fira; Azalework, Henok Gulilat; Soboka, Matiwos; Gebresilassie, Addisalem; et al..

Mapping the evidence on integrated service delivery for non-communicable and infectious disease comorbidity in sub-Saharan Africa: protocol for a scoping review.

BMJ Open, 14(6):e084740. British Medical Journal Publishing Group. (2024).

DOI: 10.1136/bmjopen-2024-084740

[Shemsedin Amme Ibro, et al.].

Exploring police officers' perspectives on road traffic accident dynamics, management, and prevention in Jimma, Ethiopia: a phenomenological qualitative study [Abstract 14].

Canadian Journal of Surgery (Bethune Round Table 2024 Abstract Supplement), 67(Suppl 1): S1–S12. *Canadian Journal of Surgery*. (2024). [Abstract]

DOI: 10.1503/cjs.006824

[Shemsedin Amme Ibro, et al.].

Addressing the paramedic shortage in Ethiopia: a critical analysis for emergency medical service improvement [Abstract 31].

Canadian Journal of Surgery (Bethune Round Table 2024 Abstract Supplement), 67(Suppl 1): S1–S12. *Canadian Journal of Surgery*. (2024). [Abstract]

DOI: 10.1503/cjs.006824

Amme S, Shemsi S, Beshir M, Takale T, Awol A, Ahmed I, Melkamu G, Hailemariam G, Husen A, Mecha M, Mehadi A, Mould-Millman N-K..

Prehospital Care System in Low-Resource Setting: Experiences Learned from Newly Established System in Jimma City, Southwest of Ethiopia.

Pan-African Journal of Emergency Medicine and Critical Care, 1(1). Ethiopian Society of Emergency and Critical Care Professionals. (2023).

DOI: 10.58904/2023/17

Ibro, Shemsedin Amme; Seid, Sheka Shemsi; Akuma, Adugna Olani; Haso, Tura Koshe; Ahmed, Abdulwahid Awol; Senbiro, Ismael Ahmed; Moga, Tolasa Takele; Fata, Gutema Ahmed; Ahmed, Muktar Beshir; Hebo, Habtamu Jarso; .

Barriers to access prehospital care in Jimma City, Oromiya Region of Ethiopia.

Pan-African Journal of Emergency Medicine Critical Care, 1(1). Ethiopian Society of Emergency and Critical Care Professionals. (2023).

DOI: 10.58904/2023/18

Amme, Shemsedin; Shemsi, Sheka; Koshe, Tura; Awol, Abdulwahid; Ahmed, Ismael; Beshir, Muktar; Jarso, Habtamu; Suleiman, Sultan; Melkamu, Gemechis; Legese, Shimelis; .

Quantification of local populations demand for prehospital emergency care in Jimma city, Ethiopia.

Pan African Journal of Emergency Medicine and Critical Care, 1(1). Ethiopian Society of Emergency and Critical Care Professionals. (2023).

DOI: 10.58904/2023/11

Seid, Sheka Shemsi; Ibro, Shemsedin Amme; Ahmed, Abdulwahid Awol; Kunzong, Gaius Rexford; .

Magnitude of admission, premature mortality and potential years of life lost due to acute diseases among pediatric patients admitted to public hospitals in Jimma City, Southwest Ethiopia..

Pan African Medical Journal, 43(1). (2022).

DOI: 10.11604/pamj.2022.43.135.31541

Amme, Shemsedin; Shemsi, Sheka; Lippi, Matthew; Awol, Abdulwahid; Ahmed, Gutema; Jarso, Habtamu; Koshe, Tura; Ahmed, Muktar; Suleiman, Sultan; Gizaw, Getu; et al..

The morbidity burden from emergency conditions in Jimma city, Southwest Ethiopia..

International Emergency Nursing, 55: 100874. Elsevier. (2021).

DOI: 10.1016/j.ienj.2020.100874

Tegegne, Belachew; Demeke, Tigist; Amme, Shemsedin; Edmealem, Afework; Ademe, Sewunet; .

Knowledge towards Prevention and Early Detection of Chronic Kidney Disease and Associated Factors among Hypertensive Patients at a Chronic Illness Clinic of Jimma Town Public Hospitals.

Ahmed, Abdulwahid Awol; Ibro, Shemsedin Amme; Melkamu, Gemechis; Seid, Sheka Shemsi; Tesfaye, Temamen; .

Length of Stay in the Emergency Department and Its Associated Factors at Jimma Medical Center, Southwest Ethiopia.

Open Access Emergency Medicine, 227-235. Taylor & Francis. (2020).

DOI: 10.2147/OAEM.S254239

Seid, Sheka Shemsi; Ibro, Shemsedin Amme; Ahmed, Abdulwahid Awol; Olani Akuma, Adugna; Reta, Ebrahim Yimam; Haso, Tura Koshe; Fata, Gutema Ahmed; .

Causes and factors associated with neonatal mortality in Neonatal Intensive Care Unit (NICU) of Jimma University Medical Center, Jimma, South West Ethiopia.

Pediatric Health, Medicine and Therapeutics, 39-48. Taylor & Francis. (2019).

DOI: 10.2147/PHMT.S197280

Seid, Sheka Shemsi; Muluneh, Elsa; Simbirro, Ismael Ahmed; Moga, Tolasa Takele; Haso, Tura Koshe; Ibro, Shamsedin Amme; .

Utilization of bottle feeding practices and associated factors among mothers who have infant less than 12 months of age in Agaro Twon, Jimma Zone South West Ethiopia.

Health Science Journal, 13(1): 1-10. Technological Educational Institute of Athens. (2019).

DOI: 10.21767/1791-809X.1000630

Haso, Tura Koshe; Seid, Sheka Shemsi; Ibro, Shamsedin Amme; .

RETENTION AND FACTORS AFFECTING PRIMARY HEALTH CARE WORKERS OF PUBLIC HEALTH CENTERS IN JIMMA ZONE, OROMIA REGION, AND SOUTH WEST OF ETHIOPIA..

European Journal of Biomedical and Pharmaceutical Sciences, 6(1): 137-143. (2019).

Link

Seid, S; Sendo, E; Haso, T; Amme, S; .

Utilization of integrated management of neonatal and childhood illness (IMNCI) guidelines and associated factors among nurse at public health institutions in west arsi zone, South East Ethiopia.

Clinical Mother and Child Health, 16: 313. (2019).

DOI: 10.4172/2090-7214.1000313

Abaraya, Mohammed; Seid, Sheka Shemsi; Ibro, Shemsedin Amme; .

Determinants of preterm birth at Jimma University Medical Center, southwest Ethiopia.

Pediatric Health, Medicine and Therapeutics, 101-107. Taylor & Francis. (2018).

DOI: 10.2147/PHMT.S174789

Haso, TK; Seid, SS; Ibro, SA; Abebe, F; .

Factors affecting motivation of primary health care workers in west Arsi Zone, Oromia region, south east of Ethiopia.

Advances in Practice Nursing, 3: 146. (2018).

DOI: 10.4172/2573-0347.1000146

Other Professional Activities

- [2024-05-16] Presented "Exploring Police Officers Perspectives on Road Traffic Accident Dynamics, Management, and Prevention in Jimma Zone, Ethiopia: A Phenomenological Qualitative Study" (Oral Presentation) at Bethune Round Table 2024, Interluxury Hotel, Addis Ababa, Ethiopia. (Details)
- [2024-05-16] Presented "Paramedic Shortage in Ethiopia: A Critical Analysis for Emergency Medical Service Improvement" (Oral Presentation) at Bethune Round Table 2024, Interluxury Hotel, Addis Ababa, Ethiopia. (Details)
- [2023-11-09] Presented "Perceptions of Police Officers on Burden and Prevention of Road Traffic Accident in Jimma Zone Ethiopia: A Qualitative Study." (Oral Presentation) at 4th Global Conference on Emergency Nursing and Trauma

Care (Organized by Elsevier and Emergency Nursing Association), Gothenburg, Sweden. (Details)

- [2023-11-09] Presented "Emergency and critical care nursing: A missing piece in the Ethiopian nursing education puzzle" (Poster Presentation) at 4th Global Conference on Emergency Nursing and Trauma Care (Organized by Elsevier and Emergency Nursing Association), Gothenburg, Sweden. (Details)
- [2023-11-04] Presented "Emergency and critical care nursing: A missing piece in the Ethiopian nursing education puzzle" (Oral presentation) at 11th Annual Conference of Ethiopian Society of Emergency and Critical Care Professionals (ESEP), Capital Hotel, Addis Ababa, Ethiopia.
- [2022-06-11] Presented "Digital solutions for Emergency Room Crowdedness, the case of Jimma University Medical Center" (Oral Presentation (Abstract)) at 10th Annual Research Conference of Ethiopian Society of Emergency and Critical Care Professionals (ESEP), Azman Hotel, Addis Ababa, Ethiopia. (Details)
- [2022-06-12] Presented "Barriers to access prehospital care in Jimma City, Oromia Region of Ethiopia" (Poster Presentation (Abstract)) at 10th Annual Research Conference of Ethiopian Society of Emergency and Critical Care Professionals (ESEP), Azman Hotel, Addis Ababa, Ethiopia. (Details)
- [2022-05] Contributed to Facility Disaster Preparedness and Response Manual (Contributed expertise as a member of the committee responsible for developing and refining the medical center's disaster response manual.) for Jimma University Medical Centre, Jimma, ET.
- [2022-06] Contributed to Jimma City Disaster Preparedness and Response Plan (Served as a technical advisor representing Jimma University on the collaborative committee tasked with creating the city-wide disaster plan.) for Jimma City Administration, in collaboration with Jimma City Health Office and Jimma University, Jimma, Ethiopia..
- [August 2022] Serve as Editorial Board Member for Pan-African Journal of Emergency and Critical Care. (Details)
- [2021-01-13] Presented "Establishing prehospital care system in low resourced settings: Lesson learned from Jimma 6238 Aayyoo Ambulance EMS Service" (Oral Presentation (Abstract)) at 8th Annual Research Conference of Ethiopian Society of Emergency and Critical Care Professionals (ESEP), Capital Hotel, Addis Ababa, Ethiopia. (Details)
- [2021-01-13] Presented "Burden of Emergency Conditions in Jimma City, Southwest Ethiopia" (Poster Presentation (Abstract)) at 8th Annual Research Conference of Ethiopian Society of Emergency and Critical Care Professionals (ESEP), Capital Hotel, Addis Ababa, Ethiopia. (Details)
- [2021-10] Contributed to National Disaster Preparedness and Response Guidelines in Health Sector (Member of the technical working group responsible for drafting and reviewing sections related to emergency response protocols.) for Ministry of Health, Adama, ET.
- [2021-06] Contributed to Manual of Dispatch guide cards, Algorithms and Standard Operation Procedure (Initiated and led the development of comprehensive operational manuals including dispatch guide cards, clinical algorithms, Standard Operating Procedures (SOPs), and related guiding documents for the dispatch center.) for Aayyoo ambulance dispatch centre, Jimma, ETH.
- [2021-07-16] Delivered/Coordinated: First Aid Course for Community First Responders (Coordinator and Instructor) to Delivered to Community First Responders in Jimma City.
- [2021-01-30] Delivered/Coordinated: National Integrated Emergency Medicine (NIEM) Training (Coordinator and Instructor (Four Rounds)) to Delivered to healthcare professionals from various public hospitals in South West Ethiopia.
- [2020-07-30] Delivered/Coordinated: Basic Emergency Care (BEC) Training (WHO Course) (Coordinator and Instructor (Three Rounds)) to Delivered to health professionals from Jimma University Medical Center and various public health facilities within Jimma City.
- [2020-09-23] Delivered/Coordinated: COVID-19 ICU Care Course (Instructor / Course Faculty) to Delivered to healthcare professionals.
- [2017-04-27] Presented "Disaster Preparedness among Government Hospitals in Addis Ababa City, Ethiopia" (Oral Presentation (Abstract)) at 8th Annual Research Conference of Jimma University, Jimma, Ethiopia.

Membership & Activities in Professional Associations

- **Member, Ethiopian Society of Emergency and Critical Care Professionals** (2016 – Current) - Addis Ababa, Ethiopia (Website)
- **Member, Ethiopian Red Cross Society** (09/2018 – Current) - Jimma, Ethiopia (Website)

Professional Honors, Awards & Fellowships

Outstanding Regional Emergency and Critical Care Nurse

Ethiopian Society of Emergency and Critical Care Professionals

2022-06 (Certificate Available)

Received a Certificate of Excellence recognizing significant and sustained contributions towards the improvement of emergency and critical care services within the region and nationally in Ethiopia.

National Award for Extraordinary Contribution to Program Implementation

Ethiopian Ministry of Health

2020-12 (Certificate Available)

Recognized for extraordinary contributions to national emergency and critical care program improvements. Acknowledged specifically for the leading role in founding the Aayyoo Ambulance service in Jimma City and implementing enhancement interventions within the Emergency Department and ICU at Jimma University Medical Centre.

Community & Professional Service

- [Ongoing] Chief Editor, horninsight.com.
- [Ongoing (part of role)] Provided community services within Jimma city, and engaging in initiatives at the national level.
- [Since 2022] Editorial Board Member, Pan-African Journal of Emergency and Critical Care. (Link)
- [July 2021 to Feb 2024] Program management team member, Major City Emergency and Critical Care Improvement Program (ME-CIP) - Collaborative program of Ethiopian Ministry of Health, Jimma University and Jimma City Health Office. Task: Plan, execute and monitor program interventions.
- [2021-10] Led establishment/implementation: Establishment of Aayyoo Ambulance Service. Designed and spearheaded the implementation of an innovative prehospital care system model tailored for low-resource settings in Sub-Saharan Africa, specifically Ethiopia.
- [2021-04] Led establishment/implementation: Implementation of Computer-Aided Dispatch (CAD) System. Initiated and led the development and implementation of a Computer-Aided Dispatch (CAD) system for the Aayyoo Ambulance dispatch center.
- [2021-07-16] Delivered Training: First Aid Course for Community First Responders (Coordinator and Instructor) to professionals/community members in Jimma City, Ethiopia.
- [2021-01-30] Delivered Training: National Integrated Emergency Medicine (NIEM) Training (Coordinator and Instructor (Four Rounds)) to professionals/community members in JUMC, Jimma, Ethiopia.
- [July 2020 to July 2021] Program Coordinator, Major City Emergency and Critical Care Improvement Program (ME-CIP) - Collaborative program of Ethiopian Ministry of Health, Jimma University and Jimma City Health Office. Task: Implemented in Jimma City, ET
- [2020-07-30] Delivered Training: Basic Emergency Care (BEC) Training (WHO Course) (Coordinator and Instructor (Three Rounds)) to professionals/community members in JUMC, Jimma, Ethiopia.