AFROMED EDUCATION INITIATIVE

AFROMED MEDICAL RESEARCH FELLOWSHIP

PROGRAM LECTURE SCHEDULE 2023/24

(DRAFT)

SENIOR RESEARCH FELLOWSHIP

MOTTO: "EMPOWERING THE NEXT GENERATION OF MEDICAL RESEARCHERS IN AFRICA AND BEYOND."

AFROMED MEDICAL & CLINICAL RESEARCH FELLOWSHIP TRAINING PROGRAM

GENERAL OVERVIEW:

The Afromed Medical & Clinical Research Training Fellowship is an annual program that trains and connects health professionals and students interested in conducting and applying medical research in Africa and beyond. The program consists of a three-six month online training phase and a one-day conference where participants present their research projects. The program covers various aspects of medical research, such as design, ethics, analysis, and dissemination, and provides mentorship and networking opportunities for the participants.

It aims to equip health professionals and students with the high-quality knowledge and skills required to foster the development and implementation of medical and clinical research studies that address relevant health problems and generate evidence-based solutions. It also aims to promote disseminating and utilizing clinical research findings in health care practice and policy. It also facilitates networking and collaboration among medical researchers, practitioners, educators, students, and other relevant stakeholders in the health ecosystem.

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INTRODUCTION

Objectives:

- ✔ To enhance postgraduate medical students' and practitioners' skills and knowledge to conduct high-quality medical and clinical research in Africa.
- ✔ To promote a culture of research excellence, innovation, and collaboration among the current and future leaders of African medical and clinical research.
- ✔ To provide mentorship, guidance, and support for the fellows to develop and implement their research projects that address Africa's health challenges and priorities.

Duration:

The 6-month fellowship training program consists of three phases: online learning, residential training, and project implementation.

Eligibility Criteria:

To be eligible for this program, candidates must meet the following criteria:

- ✔ Must hold a First Degree in Bachelor of Medicine and Surgery, Bachelor of Dental Surgery, or Bachelor of Science Degree in any related Medical and/or Health Science Discipline.
- ✔ Must demonstrate a strong desire to learn the science and practice of Medical Research and demonstrate significant commitment to promoting positive health outcomes in Africa and beyond.
- ✔ Must be at least 23 years and above.
- ✔ Must be enrolled in a reputable and accredited health training institution pursuing a Master of Medicine, Master of Science, Master of Philosophy, or Postgraduate Diploma or Certificate in any relevant field.
- ✔ Must have completed Junior Research Fellowship Training with Afromed.

Modules:

The program covers the following modules:

Module 1: Advanced Medical and Clinical Research

This module covers the principles and methods of evidence-based medicine, systematic reviews, meta-analysis, randomized controlled trials, qualitative research, mixed methods research, and critical appraisal of research articles. The fellows will learn how to evaluate and apply the best available evidence to inform clinical decision-making and practice, as well as how to conduct and interpret various types of research studies.

Module 2: Research Proposal Development

This module covers the steps and components of developing a research proposal for a medical or clinical research project. The fellows will learn to formulate clear and feasible research questions, hypotheses, and objectives, select and justify the most suitable research design and methods, develop a detailed and realistic research plan, and write a coherent and persuasive research proposal.

Module 3: Elective Courses

This module comprises concentration submodules, each focusing on a particular unique course. These courses allow the fellows to choose topics of interest and relevance to their research projects or career goals.

Module 4: Concentration Courses

This module comprises concentration submodules, each focusing on a particular specialized course. These courses provide in-depth training on specific medical and clinical research areas aligned with the African region's research priorities and needs.

Module 5: Leadership and Management

This module is primarily aimed at helping fellows develop their leadership and management skills, such as strategic planning, project management, team building, conflict resolution, and resource mobilization (e.g., grant funding sourcing). The module also prepares the fellows to take on leadership roles in medical and clinical research in their institutions and communities. As part of their practical training in Leadership and Management, the Senior Fellows shall also be assigned a team of Junior Fellows to mentor and coach.

Module 6: Research Project Implementation

This module covers the practical aspects of implementing a research project in a medical or clinical setting. The fellows will learn how to manage their data, analyze it using appropriate software and techniques, interpret and discuss their findings concerning their research questions, hypotheses, objectives, and existing literature and evidence, and write a clear and comprehensive research report.

MODULE 1: ADVANCED MEDICAL AND CLINICAL RESEARCH

This module covers the principles and methods of evidence-based medicine, systematic reviews, meta-analysis, randomized controlled trials, qualitative research, mixed methods research, and critical appraisal of research articles. The fellows will learn how to evaluate and apply the best available evidence to inform clinical decision-making and practice, as well as how to conduct and interpret various types of research studies.

Learning Outcomes:

By the end of this module, the fellows will be able to:

- ✔ Evaluate and apply the best available evidence to inform clinical decision-making and practice.
- ✔ Conduct and interpret systematic reviews and meta-analyses on a given topic or question.
- ✔ Design and conduct randomized controlled trials using appropriate methods and tools.
- ✔ Conduct and analyze qualitative research using various approaches and techniques.
- ✔ Conduct and analyze mixed methods research using various strategies and models.

Learning Activities:

This module consists of 10 online sessions, each lasting 2 hours. The sessions are delivered through lectures, videos, readings, discussions, quizzes, and assignments. The sessions cover the following topics:p

- Session 1: Evidence-Based Medicine
- Session 2: Systematic Reviews
- Session 3: Meta-Analysis
- Session 4: Randomized Controlled Trials
- Session 5: Qualitative Research
- Session 6: Qualitative Data Analysis
- Session 7: Mixed Methods Research
- Session 8: Mixed Methods Data Analysis
- Session 9: Critical Appraisal of Research Articles
- Session 10: Module Review and Feedback

Module/ Course Name: Advanced Medical and Clinical Research

Code: SRF 201

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Evidence-Based Medicine	1/WK 1	Prof. Simon Pius
Session 2	Systematic Reviews	1/Wk 1	Dr. Abena Agyarkowa Otchere-Darko, Dr Kebby Muzyamuna
Session 3	Meta-Analysis	1/Wk 2	Dr Kebby Muzyamuna, Dr Kubwimana Olivier
Session 4	Randomized Controlled Trials	1/Wk 2	Dr Evelyn Mwila Mulenga
Session 5	Qualitative Research	1/Wk 3	Dr Kebby Muzyamuna,
Session 6	Qualitative Data Analysis	1/Wk 3	Dr. Abena Agyarkowa Otchere-Darko
Session 7	Mixed Methods Research	1/Wk 4	Mr. Benyumiza Deo, Dr. Kebby Muzyamuna
Session 8	Mixed Methods Data Analysis	1/Wk 4	Dr. Kasadha Nasser. Mr. Benyumiza Deo
Session 9	Critical Appraisal of Research Articles	2/Wk 1	Dr Kebby Muzyamuna
Session 10	Review and Feedback	2/Wk 1	Dr. Abena Agyarkowa Otchere-Darko

Assessment Methods:

Two online assignments assess this module

- Assignment 1: Systematic Review (20%)

The fellows must conduct a systematic review on a topic or question related to African medical and clinical research. They are expected to follow the PRISMA guidelines for conducting and reporting systematic reviews. The systematic review should be between 3000-4000 words.

- Assignment 2: Critical Appraisal (20%)

The fellows must critically appraise two research articles, one quantitative and one qualitative, using the CASP checklists. They are expected to identify and evaluate the strengths and weaknesses of the articles and provide constructive feedback and recommendations. The critical appraisal should be between 1500-2000 words.

MODULE 2: RESEARCH PROPOSAL DEVELOPMENT

This module covers the steps and components of developing a research proposal for a medical or clinical research project. The fellows will learn to formulate clear and feasible research questions, hypotheses, and objectives, select and justify the most suitable research design and methods, develop a detailed and realistic research plan, and write a coherent and persuasive research proposal.

Learning Outcomes:

By the end of this module, the fellows will be able to:

- ✔ Formulate clear and feasible research questions, hypotheses, and objectives for their research projects.
- ✔ Select and justify the most suitable research design and methods for their research projects.
- ✔ Develop a detailed and realistic research plan, including the methodology, budget, timeline, and ethical clearance for their research projects.
- ✔ Write a coherent and persuasive research proposal for their research projects.

Learning Activities:

This module consists of 5 online sessions, each lasting 2 hours. The sessions are delivered through lectures, videos, readings, discussions, quizzes, and assignments. The sessions cover the following topics:

- Session 1: Research Questions, Hypotheses, and Objectives
- Session 2: Research Design and Methods
- Session 3: Research Plan
- Session 4: Research Proposal Writing
- Session 5: Module Review and Feedback

Module/ Course Name: Research Proposal Development

Code: SRF 202

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Research Questions, Hypotheses, and Objectives	2/WK 2	Dr Kebby Muzyamuna, Mr. Benyumiza Deo, Mr. Zakayo Ojijo
Session 2	Research Design and Methods	2/Wk 2	Dr Kebby Muzyamuna, Mr. Zakayo Ojijo, Mr. Benyumiza Deo
Session 3	Research Plan	2/Wk 3	Dr Kubwimana Olivier, Mr. Tariku Mengesha
Session 4	Research Proposal Writing	2/Wk 3	Dr Kebby Muzyamuna, Mr. Zakayo Ojijo, Mr. Benyumiza Deo
Session 5	Review and Feedback	2/Wk 3	Dr. Abena Agyarkowa Otchere-Darko

Assessment Methods:

This module is assessed by one online assignment:

- Assignment 1: Research Proposal (40%)

The fellows must write a research proposal for their research projects. They are expected to follow the AFROMED research proposal template and guidelines. The research proposal should be between 5000-6000 words.

MODULE 3: ELECTIVE COURSES

This module comprises concentration submodules, each focusing on a particular unique course. These courses allow the fellows to choose topics of interest and relevance to their research projects or career goals.

The Elective Courses are:

EC1: Clinical Trials Operations

EC2: Drug Development and Pharmacology

EC3: Epidemiology and Biostatistics

EC4: Health Economics and Policy

EC5: Qualitative and Mixed Methods Research

EC6: Systematic Reviews and Meta-analysis

EC 1: CLINICAL TRIALS OPERATIONS

COURSE DESCRIPTION

This course provides an overview of the operational aspects of conducting clinical trials, from planning to execution to closure. The course covers clinical trial design, protocol development, site selection and management, regulatory and ethical requirements, data management and quality assurance, safety monitoring and reporting, and trial closure and archiving. The course also explores the roles and responsibilities of various stakeholders involved in clinical trials, such as sponsors, investigators, monitors, coordinators, and participants.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Explain the principles and processes of clinical trial operations
- Identify and apply the critical elements of a clinical trial protocol

- Manage and coordinate the activities of a clinical trial site
- Comply with the regulatory and ethical standards for conducting clinical trials
- Ensure data quality and integrity throughout the trial
- Monitor and report adverse events and safety issues in clinical trials
- Close and archive a clinical trial according to good clinical practice

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to Clinical Trial Operations
- Clinical trial design and protocol development
- Site selection and management
- Regulatory and ethical requirements for clinical trials
- Data management and quality assurance in clinical trials
- Safety monitoring and reporting in clinical trials
- Trial closure and archiving

Module/ Course Name: Clinical Trials Operations

Code: SRF EC 203 EC1

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to Clinical Trial Operations	2/WK 4	Dr Kasimu Mamuda
Session 2	Clinical trial design and protocol development	2/Wk 4	Dr Nubahumpatse Emmanuel
Session 3	Site selection and Management	3/Wk 1	Dr. Abena Agyarkowa Otchere-Darko

Session 4	Regulatory and Ethical Requirements for Clinical Trials	3/Wk 1	Prof. Simon Pius
Session 5	Data Management and Quality Assurance in Clinical Trials	3/Wk 2	Dr. Hilkiah Kinfemicheael, Mr. Tariku Mengesha,
Session 6	Safety monitoring and reporting in clinical trials	3/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 7	Trial closure and archiving	3/Wk 3	Dr. Abena Agyarkowa Otchere-Darko

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

EC 2: DRUG DEVELOPMENT AND PHARMACOLOGY

COURSE DESCRIPTION

This course introduces the concepts and methods of drug development and pharmacology, which are essential for understanding the effects and mechanisms of drugs in medical and clinical research. The course covers drug discovery, preclinical testing, pharmacokinetics, pharmacodynamics, pharmacogenetics, drug interactions, adverse drug reactions, drug regulation, and pharmacovigilance. The course also provides practical skills in using software tools to perform pharmacological calculations and simulations.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Describe the stages and challenges of drug development
- Explain the basic principles of pharmacokinetics and do chi XTpharmacodynamics
- Apply pharmacological concepts to calculate drug doses, clearance, half-life, bioavailability, etc.
- Evaluate the effects of genetic variation on drug response and toxicity

- Identify and prevent potential drug interactions and adverse drug reactions
- Understand the regulatory framework and processes for drug approval and marketing
- Conduct and report pharmacovigilance activities to monitor drug safety

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to drug development and pharmacology
- Drug discovery and preclinical testing
- Pharmacokinetics: absorption, distribution, metabolism, excretion
- Pharmacodynamics: drug-receptor interactions, dose-response relationships
- Pharmacogenetics: genetic variation in drug response and toxicity
- Drug interactions: pharmacokinetic and pharmacodynamic interactions
- Adverse drug reactions: types, causes, prevention, management
- Drug regulation: approval process, post-marketing surveillance
- Pharmacovigilance: methods, reporting systems, signal detection

Module/ Course Name: Drug Development and Pharmacology

Code: SRF EC 203 EC2

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to Drug Development and Pharmacology	2/WK 4	Mrs. Olabinri Folashade
Session 2	Drug discovery and preclinical testing	2/Wk 4	Dr Himali Amin, Mr Devis Anthony Mhagama,
Session 3	Pharmacokinetics: absorption, distribution, metabolism, excretion	3/Wk 1	Mrs. Olabinri Folashade
Session 4	Pharmacodynamics: drug-receptor interactions, dose-response relationship	3/Wk 1	Mrs. Olabinri Folashade

Session 5	Pharmacogenetics: genetic variation in drug response and toxicity	3/Wk 2	Mr Devis Antony Mhagama
Session 6	Drug interactions: pharmacokinetic and pharmacodynamics interactions	3/Wk 2	Mrs. Olabinri Folashade
Session 7	Adverse drug reactions: types, causes, prevention, management	3/Wk 3	Dr. Abena Agyarkowa Otchere-Darko
Session 8	Drug regulation: approval process, post-marketing surveillance	3/WK 4	Dr. Abena Agyarkowa Otchere-Darko
Session 9	Pharmacovigilance: methods, reporting systems, signal detection	3/Wk 4	Dr. Abena Agyarkowa Otchere-Darko

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

EC 3: EPIDEMIOLOGY AND BIOSTATISTICS

COURSE DESCRIPTION

This course introduces the basic concepts and methods of epidemiology and biostatistics, essential for conducting and interpreting medical and clinical research. The course covers study design, disease frequency, association measures, sources of bias and confounding, data analysis,

and critical appraisal of research articles. The course also provides practical skills in using statistical software to perform descriptive and inferential analyses of health data.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Define and apply key epidemiological terms and concepts
- Identify and select appropriate study designs for different research questions
- Calculate and interpret measures of disease frequency and association
- Recognize and control for sources of bias and confounding in epidemiological studies
- Analyze and present health data using statistical software
- Critically appraise epidemiological and biostatistical literature

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to epidemiology and biostatistics
- Study design in epidemiology
- Measures of disease frequency and association
- Bias and confounding in epidemiology
- Data analysis and presentation in biostatistics
- Critical appraisal of epidemiological and biostatistical literature

Module/ Course Name: Epidemiology and Biostatistics

Code: SRF EC 203 EC3

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to epidemiology and biostatistics	2/WK 4	Mr. Zakayo Ojijo
Session 2	Study design in epidemiology	2/Wk 4	Dr Kasadha Nasser,
Session 3	Measures of diseases frequency and association	3/Wk 1	Dr Mulemwa Lubinda,

			Mr. Zakayo Ojijo
Session 4	Bias and confounding in epidemiology	3/Wk 1	Mr. Zakayo Ojijo, Mr. Tariku Mengesha
Session 5	Data analysis and presentation in biostatistics	3/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 6	Critical appraisal of epidemiological and biostatistical literature	3/Wk 2	Mr. Tariku Mengesha

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

EC 4: HEALTH ECONOMICS AND POLICY

COURSE DESCRIPTION

This course provides an overview of health economics and policy concepts and tools relevant to medical and clinical research. The course covers health systems organization and financing, health care markets and competition, health care quality and efficiency, health technology assessment, cost-effectiveness analysis, health equity, and social determinants of health. The course also examines the role of evidence in informing health policy decisions.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Explain the basic concepts and methods of health economics
- Analyze the structure and performance of health systems
- Evaluate the impact of market forces on health care delivery
- Assess the quality and efficiency of healthcare services
- Conduct health technology assessment using various criteria
- Perform cost-effectiveness analysis using decision trees or Markov models
- Identify health inequities and social determinants of health

- Apply evidence-based policymaking in health

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to health economics and policy
- Health systems organization and financing
- Healthcare markets and competition
- Health care quality and efficiency
- Health technology assessment
- Cost-effectiveness analysis
- Health equity and social determinants of health
- Evidence-based policy making in health

Module/ Course Name: Health Economics and Policy

Code: SRF EC 203 EC4

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to Health Economics and Policy	2/WK 4	Mr. Zakayo Ojijo
Session 2	Health systems organization and financing	2/Wk 4	Mr. Zakayo Ojijo
Session 3	Healthcare markets and competition	3/Wk 1	Dr. Abena Agyarkowa Otchere-Darko
Session 4	Health care quality and efficiency	3/Wk 1	Mr. Zakayo Ojijo
Session 5	Health technology assessment	3/Wk 2	Mr. Abena Agyarkowa Otchere-Darko

Session 6	Cost-effectiveness analysis	3/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 7	Health equity and social determinants of health	3/Wk 3	Mr. Zakayo Ojijo
Session 8	Evidence-based policy making in health	3/WK 4	Mr. Zakayo Ojijo, Mr. Tariku Mengesha

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

EC 5: QUALITATIVE AND MIXED METHODS RESEARCH

COURSE DESCRIPTION

This course provides an overview of qualitative and mixed research methods in health sciences, focusing on their application in medical and clinical research. The course covers qualitative and mixed research paradigms, design, data collection, analysis, and reporting. The course also explores the ethical issues and challenges of conducting qualitative research in health settings.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Explain the principles and purposes of qualitative research in health sciences
- Identify and select appropriate qualitative research methods for different research questions
- Design and conduct qualitative data collection using various techniques such as interviews, focus groups, observation, and document analysis
- Analyze and interpret qualitative data using thematic or content analysis
- Report and disseminate qualitative research findings using various formats such as reports, presentations, and publications

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to qualitative and mixed research methods in health sciences
- Qualitative and mixed research paradigms and design
- Qualitative data collection methods
- Qualitative data analysis methods
- Reporting and disseminating qualitative research findings
- Ethical issues and challenges in qualitative research

Module/ Course Name: Qualitative and Mixed Methods Research

Code: SRF EC 203 EC5

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER

Session 1	Introduction to qualitative and mixed research methods in health sciences	2/WK 4	Dr. Kolade Afolayan Afolabi, Mr. Zakayo Ojijo
Session 2	Qualitative and mixed research paradigms and design	2/Wk 4	Dr. Kolade Afolayan Afolabi, Mr. Benyumiza Deo
Session 3	Qualitative data collection methods	3/Wk 1	Mr. Zakayo Ojijo, Mr. Benyumiza Deo
Session 4	Qualitative data analysis methods	3/Wk 1	Mr. Benyumiza Deo, Dr. Kolade Afolayan Afolabi,
Session 5	Reporting and disseminating qualitative research findings	3/Wk 2	Dr. Kolade Afolayan Afolabi, Mr. Zakayo Ojijo
Session 6	Ethical issues and challenges in qualitative research	3/Wk 2	Mr. Zakayo Ojijo, Mr. Tariku Mengesha

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

EC 6: SYSTEMATIC REVIEWS AND META-ANALYSIS

COURSE DESCRIPTION

This course introduces the concepts and methods of systematic reviews and meta-analysis, widely used to synthesize evidence from medical and clinical research. The course covers

defining a review question, searching and selecting relevant studies, assessing the quality of studies, extracting and pooling data, assessing heterogeneity and publication bias, interpreting results, and reporting findings. The course also provides practical skills in using software tools to conduct systematic reviews and meta-analyses.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Formulate a clear and focused review question
- Conduct a comprehensive and systematic search for relevant studies
- Apply criteria for selecting studies for inclusion in the review
- Assess the quality and risk of bias of the included studies
- Extract and pool data from the included studies using software tools
- Assess heterogeneity and publication bias among the included studies
- Interpret results from a meta-analysis using forest plots, funnel plots, subgroup analysis, sensitivity analysis, etc.
- Report findings from systematic reviews and meta-analysis using PRISMA guidelines

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to systematic reviews and meta-analysis
- Formulating a review question and protocol
- Searching and selecting relevant studies
- Assessing the quality and risk of bias of studies
- Extracting and pooling data from studies
- Assessing heterogeneity and publication bias among studies
- Interpreting results from meta-analysis
- Reporting findings from systematic reviews and meta-analysis

Module/ Course Name: Systematic Reviews and Meta-Analysis

Code: SRF EC 203 EC6

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to systematic reviews and meta-analysis	2/WK 4	Mr. Tariku Mengesha
Session 2	Formulating a review question and protocol	2/Wk 4	Dr. Abena Agyarkowa Otchere-Darko
Session 3	Searching and selecting relevant studies	3/Wk 1	
Session 4	Assessing the quality and risk of bias of studies	3/Wk 1	Dr. Abena Agyarkowa Otchere-Darko
Session 5	Extracting and pooling data from studies	3/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 6	Assessing heterogeneity and publication bias among studies	3/Wk 2	Dr Kasimu Mamuda
Session 7	Interpreting results from meta-analysis	3/Wk 3	Mr. Tariku Mengesha
Session 8	Reporting findings from systematic reviews and meta-analysis	3/WK 4	Dr. Abena Agyarkowa Otchere-Darko

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

MODULE 4: CONCENTRATION COURSES

This module comprises concentration submodules, each focusing on a particular specialized course. These courses provide in-depth training on specific medical and clinical research areas aligned with the African region's research priorities and needs.

The Concentration Courses are:

CC1: Infectious Diseases Research

CC2: Non-communicable Diseases Research

CC3: Maternal and Child Health Research

CC4: Mental Health Research

CC5: Health Systems Research

CC 1: INFECTIOUS DISEASES RESEARCH

COURSE DESCRIPTION

This course provides an in-depth understanding of the epidemiology, prevention, diagnosis, treatment, and control of infectious diseases, focusing on the major infectious diseases affecting Africa. The course covers malaria, tuberculosis, HIV/AIDS, neglected tropical diseases, emerging and re-emerging infections, antimicrobial resistance, and vaccine development and evaluation. The course also explores infectious diseases' social, environmental, and behavioral determinants and the ethical and policy issues involved in infectious diseases research.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Describe the epidemiological patterns and trends of infectious diseases in Africa
- Explain the biological and molecular mechanisms of infection and immunity
- Apply the principles and methods of infectious disease prevention, diagnosis, treatment, and control
- Evaluate the efficacy and safety of vaccines and other interventions for infectious diseases
- Identify the social, environmental, and behavioral factors influencing infectious disease transmission and outcomes
- Analyze the ethical and policy implications of infectious disease research

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to infectious diseases research
- Malaria: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control
- Tuberculosis: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control
- HIV/AIDS: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control
- Neglected tropical diseases: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control
- Emerging and re-emerging infections: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control
- Antimicrobial resistance: epidemiology, mechanisms, detection, prevention, and control
- Vaccine development and evaluation: principles, methods, challenges, and opportunities
- Social, environmental, and behavioral determinants of infectious diseases
- Ethical and policy issues in infectious diseases research

Module/ Course Name: Infectious Diseases Research

Code: SRF CC 204 CC1

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to infectious diseases research	4/WK 1	Dr Kasimu Mamuda
Session 2	Malaria: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control	4/Wk 1	Dr Nubahumpatse Emmanuel, Mr. Zakayo Ojijo, Mr. Benyumiza Deo
Session 3	Tuberculosis: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control	4/Wk 2	Dr. Kasimu Mamuda, Mr. Zakayo Ojijo, Mr. Tariku Mengesha
Session 4	HIV/AIDS: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control	4/Wk 2	Dr Nubahumpatse Emmanuel, Mr. Zakayo Ojijo, Mr. Benyumiza Deo,
Session 5	Neglected tropical diseases: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control	4/Wk 3	Dr Nubahumpatse Emmanuel, Mr. Zakayo Ojijo
Session 6	Emerging and re-emerging infections: epidemiology, pathogenesis, diagnosis, treatment, prevention, and control	4/Wk 3	Dr Kasadha Nasser, Mr. Zakayo Ojijo
Session 7	Antimicrobial resistance: epidemiology, mechanisms, detection, prevention, and control	4/Wk 4	Dr. Abena Agyarkowa Otchere-Darko, Dr Kasimu Mamuda
Session 8	Vaccine development and evaluation: principles, methods, challenges, and opportunities	4/Wk 4	Dr. Abena Agyarkowa Otchere-Darko

Session 9	Social, environmental, and behavioral determinants of infectious diseases	5/Wk 1	Dr Kubwimana Olivier, Mr. Zakayo Ojijo
Session 10	Ethical and policy issues in infectious diseases research	5/Wk 1	Dr Nubahumpatse Emmanuel, Mr. Zakayo Ojijo, Mr. Tariku Mengesha

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

CC 2: NON-COMMUNICABLE DISEASES RESEARCH

COURSE DESCRIPTION

This course provides an in-depth understanding of the epidemiology, prevention, management, and control of non-communicable diseases (NCDs), focusing on the significant NCDs affecting Africa. The course covers cardiovascular diseases, diabetes, cancer, chronic respiratory diseases, chronic kidney disease, and sickle cell disease. The course also explores the risk factors, complications, and comorbidities of NCDs and the health systems challenges and opportunities for NCDs research.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Describe the epidemiological patterns and trends of NCDs in Africa
- Explain the pathophysiology and clinical features of NCDs
- Apply the principles and methods of NCDs prevention, management, and control
- Assess the risk factors, complications, and comorbidities of NCDs
- Evaluate the health systems challenges and opportunities for NCDs research

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to non-communicable diseases research
- Cardiovascular diseases: epidemiology, pathophysiology, diagnosis, management, prevention, and control
- Diabetes: epidemiology, pathophysiology, diagnosis, management, prevention, and control
- Cancer: epidemiology, pathophysiology, diagnosis, management, prevention, and control

- Chronic respiratory diseases: epidemiology, pathophysiology, diagnosis, management, prevention, and control
- Chronic kidney disease: epidemiology, pathophysiology, diagnosis, management, prevention, and control
- Sickle cell disease: epidemiology, pathophysiology, diagnosis, management, prevention, and control
- Risk factors, complications, and comorbidities of NCDs
- Health systems challenges and opportunities for NCDs research

Module/ Course Name: Non-Communicable Diseases Research

Code: SRF CC 204 CC2

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to non-communicable diseases research	4/WK 1	Dr. Hilkiah Kinfemicheael, Mr. Zakayo Ojijo
Session 2	Cardiovascular diseases: epidemiology, pathophysiology, diagnosis, management, prevention, and control	4/Wk 1	Mr. Zakayo Ojijo, Dr. Hilkiah Kinfemicheael
Session 3	Diabetes: epidemiology, pathophysiology, diagnosis, management, prevention, and control	4/Wk 2	Dr. Hilkiah Kinfemicheael, Mr. Zakayo Ojijo
Session 4	Cancer: epidemiology, pathophysiology, diagnosis, management, prevention, and control	4/Wk 2	Mr. Zakayo Ojijo, Mr. Tariku Mengesha
Session 5	Chronic respiratory diseases: epidemiology, pathophysiology, diagnosis, management, prevention, and control	4/Wk 3	Mr. Zakayo Ojijo, Dr. Hilkiah Kinfemicheael
Session 6	Chronic kidney disease: epidemiology, pathophysiology, diagnosis, management, prevention, and control	4/Wk 3	Dr. Hilkiah Kinfemicheael, Mr. Zakayo Ojijo
Session 7	Sickle cell disease: epidemiology, pathophysiology, diagnosis,	4/Wk 4	Mr. Zakayo Ojijo, Dr. Hilkiah Kinfemicheael

	management, prevention, and control		
Session 8	Risk factors, complications, and comorbidities of NCDs	4/Wk 4	Dr. Hilkiah Kinfemicheael, Mr. Zakayo Ojijo
Session 9	Health systems challenges and opportunities for NCDs research	5/Wk 1	Dr. Hilkiah Kinfemicheael, Mr. Zakayo Ojijo, Mr. Tariku Mengesha

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

CC 3: MATERNAL AND CHILD HEALTH RESEARCH

COURSE DESCRIPTION

This course provides an in-depth understanding of the health issues and interventions affecting mothers, children, and adolescents, focusing on the African context. The course covers topics such as maternal and neonatal mortality and morbidity, childhood illnesses and immunization, adolescent health and development, nutrition and growth, reproductive health and family planning, and gender-based violence and child protection. The course also explores the social determinants of maternal and child health and the ethical and policy issues involved in maternal and child health research.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Describe the health status and needs of mothers, children, and adolescents in Africa
- Explain the causes and consequences of maternal and neonatal mortality and morbidity
- Apply the principles and methods of maternal and neonatal health interventions
- Explain the causes and consequences of childhood illnesses and immunization
- Apply the principles and methods of childhood illness and immunization interventions
- Explain the causes and consequences of adolescent health and development
- Apply the principles and methods of adolescent health and development interventions
- Explain the causes and consequences of nutrition and growth
- Apply the principles and methods of nutrition and growth interventions
- Explain the causes and consequences of reproductive health and family planning
- Apply the principles and methods of reproductive health and family planning interventions
- Explain the causes and consequences of gender-based violence and child protection
- Apply the principles and methods of gender-based violence and child protection interventions

- Identify the social determinants of maternal and child health
- Analyze the ethical and policy implications of maternal and child health research

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to maternal and child health research
- Maternal and neonatal mortality and morbidity: epidemiology, causes, consequences, interventions
- Childhood illnesses and immunization: epidemiology, causes, consequences, interventions
- Adolescent health and development: epidemiology, causes, consequences, interventions
- Nutrition and growth: epidemiology, causes, consequences, interventions
- Reproductive health and family planning: epidemiology, causes, consequences, Interventions
- Gender-based violence and child protection: epidemiology, causes, consequences, interventions
- Social determinants of maternal and child health
- Ethical and policy issues in maternal and child health research

Module/ Course Name: Maternal and Child Health Research

Code: SRF CC 204 CC3

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to maternal and child health research	4/WK 1	Dr. Kolade Afolayan Afolabi, Mr. Zakayo Ojijo
Session 2	Maternal and neonatal mortality and morbidity: epidemiology, causes, consequences, interventions	4/Wk 1	Dr. Nubahumpatse Emmanuel, Mr. Zakayo Ojijo
Session 3	Childhood illnesses and immunization: epidemiology, causes, consequences, interventions	4/Wk 2	Dr. Abena Agyarkowa Otchere-Darko

Session 4	Adolescent health and development: epidemiology, causes, consequences, interventions	4/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 5	Nutrition and growth: epidemiology, causes, consequences, interventions	4/Wk 3	Dr. Abena Agyarkowa Otchere-Darko
Session 6	Reproductive health and family planning: epidemiology, causes, consequences, Interventions	4/Wk 3	Mr. Zakayo Ojijo
Session 7	Gender-based violence and child protection: epidemiology, causes, consequences, interventions	4/Wk 4	Dr. Abena Agyarkowa Otchere-Darko
Session 8	Social determinants of maternal and child health	4/Wk 4	Dr. Abena Agyarkowa Otchere-Darko
Session 9	Ethical and policy issues in maternal and child health research	5/Wk 1	Mr. Tariku Mengesha

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

CC 4: MENTAL HEALTH RESEARCH

COURSE DESCRIPTION

This course provides an in-depth understanding of the epidemiology, diagnosis, treatment, prevention, promotion, stigma, human rights, policy, service delivery, research methods, ethics, culture, religion, spirituality, and traditional healing practices related to mental disorders. The course covers topics such as depression, anxiety disorders, bipolar disorder, schizophrenia, substance use disorders, dementia, intellectual disabilities, suicide, self-harm, and trauma-related disorders. The course also explores the social determinants of mental health and the challenges and opportunities for mental health research in Africa.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Describe the epidemiological patterns and trends of mental disorders in Africa
- Explain the biological, psychological, social, cultural, and spiritual factors influencing mental health
- Apply the principles and methods of mental disorder diagnosis using various tools such as DSM-V or ICD-10
- Evaluate the effectiveness and safety of various treatment modalities for mental disorders, such as pharmacotherapy, psychotherapy, and psychosocial interventions.
- Implement evidence-based strategies for mental disorder prevention, such as life skills education, parenting programs, and community awareness campaigns.
- Promote mental well-being using various approaches such as positive psychology, resilience building, and mindfulness.
- Address stigma, discrimination, and human rights violations related to mental disorders using various strategies such as advocacy, empowerment, and social inclusion.

- Analyze the policy framework for mental health in Africa, such as legislation, plans, and standards.
- Assess the service delivery system for African mental health, such as availability, accessibility, and quality.
- Conduct rigorous mental health research using various methods, such as quantitative, qualitative, or mixed methods.
- Apply ethical principles for conducting mental health research, such as informed consent, confidentiality, beneficence, and non-maleficence justice.
- Respect cultural diversity in mental health research, such as beliefs, values, practices, and preferences.

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to mental health research
- Depression
- Anxiety disorders
- Bipolar disorder
- Schizophrenia
- Substance use disorders
- Dementia
- Intellectual disabilities
- Suicide and self-harm
- Trauma-related disorders
- Social determinants of mental health
- Mental disorder diagnosis
- Mental disorder treatment
- Mental disorder prevention
- Mental well-being promotion
- Stigma, discrimination, and Human rights.

Module/ Course Name: Mental Health Research

Code: SRF CC 204 CC3

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to mental health research	4/WK 1	Mr. Zakayo Ojijo
Session 2	Depression	4/Wk 1	Mr. Zakayo Ojijo

Session 3	Anxiety disorders	4/Wk 2	Mr. Zakayo Ojijo
Session 4	Bipolar disorder	4/Wk 2	Mr. Zakayo Ojijo
Session 5	Schizophrenia	4/Wk 3	Mr. Zakayo Ojijo
Session 6	Substance use disorders	4/Wk 3	Mr. Zakayo Ojijo
Session 7	Dementia	4/Wk 4	Mr. Zakayo Ojijo
Session 8	Intellectual disabilities	4/Wk 4	Dr. Abena Agyarkowa Otchere-Darko
Session 9	Suicide and self-harm	5/Wk 1	Mr. Zakayo Ojijo
Session 10	Trauma-related disorders	5/Wk 1	Mr. Zakayo Ojijo
Session 11	Social determinants of mental health	5/WK 2	Mr. Zakayo Ojijo
Session 12	Mental disorder diagnosis	5/Wk 2	Mr. Zakayo Ojijo
Session 13	Mental disorder treatment	5/Wk 3	Mr. Zakayo Ojijo
Session 14	Mental disorder prevention	5/Wk 3	Mr. Zakayo Ojijo
Session 15	Mental well-being promotion	5/Wk 4	Mr. Zakayo Ojijo

Session 16	Stigma, discrimination, and Human rights.	5/Wk 4	Mr. Zakayo Ojijo

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

CC 5: HEALTH SYSTEMS RESEARCH

COURSE DESCRIPTION

This course provides an in-depth understanding of the concepts and methods of health systems research, a multidisciplinary field that aims to improve the performance and outcomes of health systems. The course covers topics such as health systems frameworks, functions, and goals; health systems strengthening strategies and interventions; health systems governance, financing, and accountability; health systems quality, efficiency, and equity; health systems resilience and responsiveness; health systems innovation and learning; and health systems evaluation and evidence. The course also explores Africa's challenges and opportunities for health systems research.

LEARNING OUTCOMES

By the end of this course, the participants will be able to:

- Explain the key concepts and methods of health systems research
- Analyze the structure and performance of health systems using various frameworks and indicators
- Identify and apply the strategies and interventions for health system strengthening
- Evaluate the governance, financing, and accountability mechanisms of health systems
- Assess the quality, efficiency, and equity of health systems services and outcomes
- Enhance the resilience and responsiveness of health systems to shocks and changes
- Foster innovation and learning within and across health systems
- Conduct rigorous health systems evaluation using various designs and methods

- Apply evidence-based decision-making for health system improvement

LEARNING ACTIVITIES

The course will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to health systems research
- Health systems frameworks, functions, and goals
- Health systems strengthening strategies and interventions
- Health systems governance, financing, and accountability
- Health systems quality, efficiency, and equity
- Health systems resilience and responsiveness
- Health systems innovation and learning
- Health systems evaluation and evidence

Module/ Course Name: Health Systems Research

Code: SRF CC 204 CC4

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to health systems research	4/WK 1	Dr. Abena Agyarkowa Otchere-Darko
Session 2	Health systems frameworks, functions, and goals	4/Wk 1	Dr. Abena Agyarkowa Otchere-Darko
Session 3	Health systems strengthening strategies and interventions	4/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 4	Health systems governance, financing, and accountability	4/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 5	Health systems quality, efficiency, and equity	4/Wk 3	Dr. Abena Agyarkowa Otchere-Darko
Session 6	Health systems resilience and responsiveness	4/Wk 3	Dr. Abena Agyarkowa Otchere-Darko
Session 7	Health systems innovation and learning	4/Wk 4	Dr Mulemwa Lubinda
Session 8	Health systems evaluation and evidence	4/Wk 4	Dr. Abena Agyarkowa Otchere-Darko

ASSESSMENT METHODS

The course will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

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MODULE 5: LEADERSHIP AND MANAGEMENT

This module is primarily aimed at helping fellows develop their leadership and management skills, such as strategic planning, project management, team building, conflict resolution, and resource mobilization (e.g., grant funding sourcing). The module also prepares the fellows to take on leadership roles in medical and clinical research in their institutions and communities. As part of their practical training in Leadership and Management, the Senior Fellows shall also be assigned, each a team of Junior Fellows, to mentor, supervise, and coach.

This module provides an overview of the concepts and skills of leadership and management, which are essential for conducting and applying medical and clinical research in Africa. The module covers leadership styles and theories, leadership competencies and development, team building and communication, conflict resolution and negotiation, project management and planning, resource mobilization and budgeting, monitoring and evaluation, and change management. The module also explores the challenges and opportunities for leadership and management in medical and clinical research in Africa.

LEARNING OUTCOMES

By the end of this module, the participants will be able to:

- Explain the differences and similarities between leadership and management
- Identify and apply various leadership styles and theories in different contexts
- Develop and enhance their leadership competencies and potential
- Build and manage effective teams and communicate clearly and respectfully
- Resolve conflicts and negotiate win-win solutions
- Plan and manage projects using various tools and techniques
- Mobilize and manage resources and budgets for research projects
- Monitor and evaluate the progress and impact of research projects
- Manage change and uncertainty in research environments

LEARNING ACTIVITIES

The module will use a combination of lectures, case studies, group discussions, quizzes, and assignments to facilitate learning. The participants will also have access to online resources and tutorials to supplement their learning.

COURSE OUTLINE

- Introduction to leadership and management

- Leadership styles and theories
- Leadership competencies and development
- Team building and communication
- Conflict resolution and negotiation
- Project management and planning
- Resource mobilization and budgeting
- Monitoring and evaluation
- Change management

Module/ Course Name: Leadership and Management

Code: SRF 205

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Session 1	Introduction to leadership and management	5/WK 1	Dr. Abena Agyarkowa Otchere-Darko
Session 2	Leadership styles and theories	5/Wk 1	Dr. Abena Agyarkowa Otchere-Darko
Session 3	Leadership competencies and development	5/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 4	Team building and communication	5/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Session 5	Conflict resolution and negotiation	5/Wk 3	Dr. Abena Agyarkowa Otchere-Darko
Session 6	Project management and planning	5/Wk 3	Dr. Abena Agyarkowa Otchere-Darko
Session 7	Resource mobilization and budgeting	5/Wk 4	Dr. Abena Agyarkowa Otchere-Darko
Session 8	Monitoring and evaluation	5/Wk 4	Dr. Zakayo Ojijo

Session 9	Change Management	6/Wk 1	Dr. Tariku Mengesha

ASSESSMENT METHODS

The module will be assessed based on the following components:

- Quiz: 20%
- Assignment: 40%
- Final exam: 40%

MODULE 6: RESEARCH PROJECT IMPLEMENTATION

This module covers the practical aspects of implementing a research project in a medical or clinical setting. The fellows will learn how to manage their data, analyze it using appropriate software and techniques, interpret and discuss their findings concerning their research questions, hypotheses, objectives, and existing literature and evidence, and write a clear and comprehensive research report.

Learning Outcomes:

By the end of this module, the fellows will be able to:

- ✔ Implement their research projects in their respective settings according to their research plans.
- ✔ Manage their data effectively and securely using appropriate tools and software.
- ✔ Ensure the quality and validity of their data using various methods and techniques.
- ✔ Monitor and evaluate their research progress and performance using various indicators and tools.
- ✔ Disseminate and publish their research findings using various formats and platforms.

Learning Activities:

This module consists of 5 residential training workshops, each lasting 2 hours. The workshops are delivered through lectures, videos, readings, discussions, presentations, and field visits. The workshops cover the following topics:

- Workshop 1: Data Management

- Workshop 2: Quality Assurance

- Workshop 3: Monitoring and Evaluation

- Workshop 4: Dissemination and Publication

- Workshop 5: Project Review and Feedback

Module/ Course Name: Research Project Implementation

Code: SRF 206

SESSION	TOPIC	MONTH/ WEEK/DATE	LECTURER
Workshop 1	Data Management	6/WK 1	Mr. Zakayo Ojijo
Workshop 2	Quality Assurance	6/Wk 2	Dr. Abena Agyarkowa Otchere-Darko
Workshop 3	Monitoring and Evaluation	6/Wk 2	Mr. Zakayo Ojijo
Workshop 4	Dissemination and Publication	6/Wk 3	Mr. Zakayo Ojijo, Mr. Tariku Mengesha
Workshop 5	Project Review and Feedback	6/Wk 3	Mr. Tariku Mengesha

Assessment Methods:

Two residential assignments assess this module:

- Assignment 1: Research Project Report (40%)

The fellows must write a research project report for their research projects. They are expected to follow the AFROMED research project report template and guidelines. The research project report should be between 8000 and 10000 words.

- Assignment 2: Research Project Presentation (20%)

The fellows must present their research project findings to a panel of experts and peers. They are expected to use PowerPoint slides or posters to support their presentation. The presentation should be between 20-25 minutes.

PUBLICATION OF FINAL RESULTS= LAST DAY OF WEEK 3/ FIRST DAY OF WEEK 4 OF MONTH 6

GRADUATION= LAST FRIDAY OF MONTH 6

Program Coordinator: Dr. Abena Agyarkowa Otchere-Darko

Vice Program Coordinator: Dr Evelyn Mwila Mulenga