

*Debremarkos university*  
*Department of Health Informatics*

- **Course Name:** Routine Health Information System-II
- **Course Code:** HeIn2153
- **Course ECTS:** 5
- **Instructor:** Getaye.T

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# Course objectives

After the completion of this course, students will be able to:

- Describe the concepts of community health information system
- Understand the Ethiopian community health information systems
- Apply recording and reporting tools of the CHIS
- Discusses disease surveillance and response system or Public Health Emergency Management (PHEM)
- Identify diseases under surveillance
- Implement tools used for the disease surveillance and response
- Discuss concepts in LMIS
- Describe the benefits of HRIS

# Mode of Evaluation

## Continuous Assessment

- Test 20%
- Group Project 30%

## Final written Exam

50%

Total

**100%**

# CHAPTER- ONE

## OVERVIEW OF COMMUNITY HEALTH INFORMATION SYSTEM

### Learning outcomes

At the end of this session, students will be able to:

1. Define terms related to CHIS
2. Differentiate CHIS and HMIS
3. Identify purpose and scope of CHIS
4. Describe essential functions of CHIS

# Introduction

- Generating information for evidenced decision making at each level of health system is relied on RHIS.
  
- FMoH have been implementing the HSTP to ensure:
  - ✓ High quality
  - ✓ Equity
  - ✓ Sustainable
  - ✓ Adaptive and efficient health services

## Introduction cont'd...

- HSTP has three key features
  - ❖ Quality and equity
  - ❖ Universal health coverage
  - ❖ Transformation
- The four HSTP transformation agenda are:
  - Information revolution
  - Quality and equity in health care
  - Woreda transformation
  - Developing caring, respectful & compassionate health professionals

## Definition of terms

- **Community:** a community, either urban or rural, is a unit or group usually identified and recognized by both the people comprising that unit or group and by some geopolitical/administrative hierarchy.
- **Community Health:** A field within public health that concerns itself with the study and betterment of the health of communities.

## Definition of terms cont'd....

**CHIS** involves:

- Data collection
- Management
- Analysis
- Dissemination and
- Use of data for health and related services provided to communities outside of facilities

It is a dynamic system that includes health information on how data are collected, how they flow, how to assess and improve data quality, and how the information is used

## CHIS Vs HMIS?

**(what is there relationship?)**

# CHIS Vs HMIS

- ❑ CHIS is a component of HMIS
- ❑ CHIS primarily focused on health data management at community level
- ❑ HMIS comprises of RHIS at health facility (Hospitals, health centers and clinics), including imbedded-CHIS
- ❑ Both CHIS and HMIS are inter-connected and
  - CHIS data must feed seamlessly into HMIS and
  - HMIS need to provide feedback and support to strengthen CHIS

# Purposes of CHIS

## What are the purposes of CHIS?

- ❑ **To improve quality of data at community level**
  - Good-quality healthcare depends on a strong CHIS to measure and evaluate critical elements of care and
  - provide accurate data for evidence-informed decision making aimed at improving services and outcomes.

## Purposes of CHIS cont'd...

- ❑ **To facilitate quick retrieval of data**
  - ✓ Effective transformation of data into information
  - ✓ Effective integration of information to other disciplines to concretize knowledge and creates better understanding.
  - ✓ Creation of computerized patient records, medical information system
  - ✓ Central repositories of all data such as data warehouse

## Purposes of CHIS cont'd...

- To create basic information at the community level for facilitating evidence-based practices
  - To provide data for short and long-term planning of health activities
  - To calculate coverage indicators
  - To monitor and evaluate performances
  - To assess changes in health status of the population
  - To facilitate research activities
  - To identify community needs

# Scope of CHIS

- Data collection
- Processing
- Analysis and
- Dissemination and local level data use for evidence based practices

# Essential Functions of CHIS

- ❑ To promote community engagement in health
- ❑ To identify community needs
- ❑ To support case management and continuity of care
  - To document individual-level needs to support care planning
  - To enable bidirectional referrals
  - To track lost to follow-up patients
  - To monitor and evaluate performances
- ❑ To ensure accountability

# Activity-1

Aregash and Fate, Health Extension Workers in Lomi Kebele were trying to implement CHIS at their respective Health Post. Assume you are a mentor went to visit Lomi HP. You identified that HEWs keep records, check quality of data and timely report to their cluster Health center.

1. As a mentor, what will be your plan of actions?
2. Explain the benefit of CHIS to:
  - i. Lomi Kebele residents,
  - ii. Lomi Health Post,
  - iii. Woreda health Office
  - iv. Regional and national level?

*Thanks!*