

NSMCH BIHTA PATNA
COMMUNITY MEDICINE

➤ **RESEARCH LABORATORY**

The Research laboratory focuses on conducting research that addresses the health needs of a specific community. Its aim is to understand health issues, evaluate interventions, and develop strategies to improve public health outcomes.

Key Components

1. **Research Focus Areas**

- **Epidemiology:** Study disease patterns and risk factors within the community.
- **Intervention Studies:** Evaluate the effectiveness of health programs, screenings, and treatments.
- **Health Behaviour Research:** Investigate lifestyle factors and their impact on health.

2. **Laboratory Facilities**

- Equipped for various research activities, and data collection.
- May include areas for biostatistics, data analysis, and bioinformatics.

3. **Community Engagement**

- Actively involves community members in the research process to ensure relevance and cultural sensitivity.
- Establishes partnerships with local organizations and stakeholders.

Functions

1. **Data Collection and Analysis**

- Gathers quantitative and qualitative data to assess health trends, behaviours, and outcomes in the community.
- Utilizes surveys, focus groups, and health assessments.

2. **Public Health Surveillance**

- Monitors health indicators and disease outbreaks to inform local health policies and interventions.
- Testing of water samples for contamination, testing for food adulteration and quality of drinking water.

3. **Development of Health Programs**

- Designs and tests public health interventions tailored to community needs, such as vaccination campaigns or health education initiatives.

4. Dissemination of Findings

- Shares research results with the community, policymakers, and health professionals to drive evidence-based decision-making.
 - Publishes findings in academic journals and presents at conferences.
- **Training and Capacity Building**
 - Provides training for community members and healthcare providers to enhance local research capacity and promote health literacy.