

WELCOME TO MEU'S PRESENTATION FOR THE MONTH OF SEPTEMBER '25

**Topic : "Righteous Issues in Medical Research and Publication"**

a] Medical Ethics to Pursue Basic Science and Clinical Research

b] Plagiarism

c] Conflict of Interest

**Participating Disciplines:** Department of Forensic Medicine  
Department of Orthopaedic Surgery  
Department of Radiology & Imaging

**Date : 8<sup>th</sup> September, 2025**

**Time : 08.00 am**

**Venue : Medical Education Unit ( 3<sup>rd</sup> Floor, College building, DMC)**

**All respected Faculties are cordially invited**

**Medical Education unit**

**Dhaka Medical College**

# SPEAKERS



**Dr Fahmida haque**  
Assistant Professor  
Department of Forensic Medicine  
Dhaka Medical College



**Dr. Md. Harun Are Rashid**  
Assistant Professor  
Department of Orthopaedics  
Dhaka Medical College



**Dr. Elora Afroz Leema**  
Assistant Professor  
Department of Radiology & Imaging  
Dhaka Medical College

Righteous Issues  
In  
Medical Research and Publication  
//  
Medical Ethics  
In  
Pursuing Basic Science and Clinical Research

Dr. Fahmida Haque  
Assistant Professor  
Forensic Medicine  
Dhaka Medical College

# MEDICAL ETHICS IN RESEARCH

- Research ethics is the framework that ensures scientific discovery and serves people without violating their dignity or safety.

# FUNDAMENTALS OF MEDICAL ETHICS IN RESEARCH

- Nuremberg Code(1947)
- Declaration of Helsinki(1964)
- Belmont Report (1979)
- CIOMS-WHO guidelines

# COMPONENTS

- Autonomy and informed consent
- Beneficence
- Non maleficence
- Justice
- Confidentiality & data privacy
- Transparency

# AUTONOMY

- Participants are decision makers.
- Right to accept or refuse.
- Avoid coercion and undue influence.
- Informed consent.

# BENEFICENCE

- Designing for benefits.
- Access to effective standard care.

# NON-MALEFICENCE

- Avoiding unnecessary risks & burdens.
- Limited invasive procedures.
- Close safety monitoring
- Predefined stopping rules if harm occurs.

# JUSTICE

- Equitable inclusions.
- fair distribution of risks and benefits.
- Post trial access plans.

# CONFIDENTIALITY AND DATA PRIVACY

- Coded identifiers , secure storage.
- Proper identification.
- Data use agreements.

# TRANSPARENCY

- Timely registration of trials.
- Authorship reflecting meaningful contribution.
- Avoid plagiarism and conflict of interest.

# MEDICAL ETHICS IN CLINICAL RESEARCH

- Things that must be submitted to the ethical committee-
  - Complete protocol
  - Consent material
  - Recruitment plans
  - Investigator CVs
  - Safety monitoring plans

cont.....

- Report serious adverse events quickly.
- prompt treatment with referral facilities.
- Protecting vulnerable populations.
- publish regardless of outcomes.
- Consider post trial access to effective interventions

# ETHICS IN BASIC SCIENCE

- Defining ethical boundaries especially for human tissues and animals
- Biosafety approvals for pathogens , gene editing or animal use
- Ensure material transfer agreements
- Obtain consent for bio banking
- Use coded IDs to protect privacy

cont.....

- Audit trial to support reproducibility.
- internal IRB review before submission.
- Always share the results even if they are negative.
- Be honest about the weaknesses of the study.

# BANGLADESH AT PRESENT

- Bangladesh Medical Research Council (BMRC)-  
provides national guidance and approves many  
biomedical and clinical studies
- Institutional Research Boards (IRB)-  
in Large universities and tertiary hospitals

# DRAWBACKS OF BANGLADESH

- Lack of functioning ethical committees.
- weak data protection.
- paper records and unsecure digital storage.
- Lack of national registries Linked to international platforms.
- Non publication of negative results.

# WHAT BANGLADESH SHOULD ADOPT

- Create a Bangladesh Clinical Trial Registry linked to WHO CIOMS (Council for International Organizations of Medical Sciences).
- Patient centered consent-local language first.
- Data protection inspired by GDPR.
- Promoting a culture to rework accuracy and transparency over headline results.
- Mandatory Ethics training.
- Regular audits.

# FINAL TAKEAWAYS

By aligning global best practices , Bangladesh can lead safe and impactful research that benefits its people and the world.

Thank You

