

The University of Texas Health Science Center at Houston

Ethics of Clinical Trials

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Foundations of Cancer Therapeutics Course August 2022

OBJECTIVES

♦ Learn about regulatory requirements that apply to human subjects research.

- ♦ Define ethical values and principles and explain how they differ from laws, policies, and codes of conduct.
- ♦ Describe the ethical oversight regulations and guidance.

♦ Informed consent process and document.

 Apply basic regulatory knowledge to illustrate ethical considerations made by IRBs in reviewing human subjects.

♦ Identify common ethical challenges that arise in research.

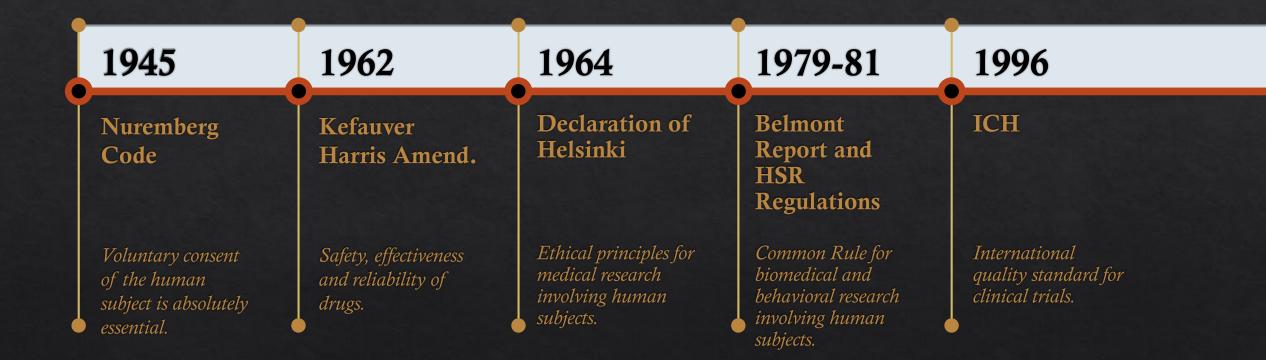
History of Clinical Trials





Book of Daniels Meat vs Vegan	Cleopatra Gender experiment	Surgeon Pare Wound care – Boiling Oil vs Egg yolks, rose petals and turpentine	James Lind Scurvy Trial	Austin Flint Placebo Effect of Mint Water for Rheumatic Fever	MRC Double blind randomized trial Patulin for Common Cold
6 th Century BC	1 st century BC	1537	1747	1863	1943

History of Clinical Trial Regulations



PHASES of a CLINICAL TRIAL



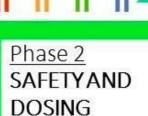
Preclinical LABORATORY STUDIES

Duration: Several years

 Provide information on dosing and toxicity levels



- SAFETY Duration: Several months
- Evaluate safety
 Gather information about how a drug interacts with the human body

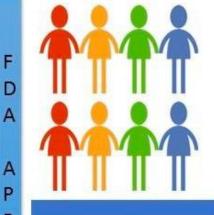


Duration: Several months

- ✓ Further evaluate safety
- ✓ Monitor side effects
- ✓ Check which dose works best
- ✓ Check effectiveness

Phase 3 SAFETY AND EFFICACY Duration: Several years

 ✓ Confirm effectiveness
 ✓ Monitor safety



Phase 4 POST MARKETING SAFETY AND EFFICACY

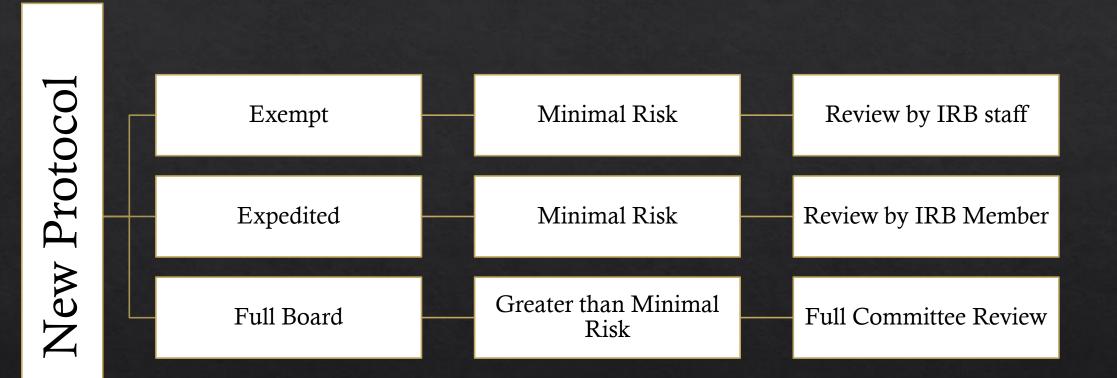
 Gather information on the drug's effect in various populations and any side effects associated with long-term use

INSTITUTIONAL REVIEW BOARDS



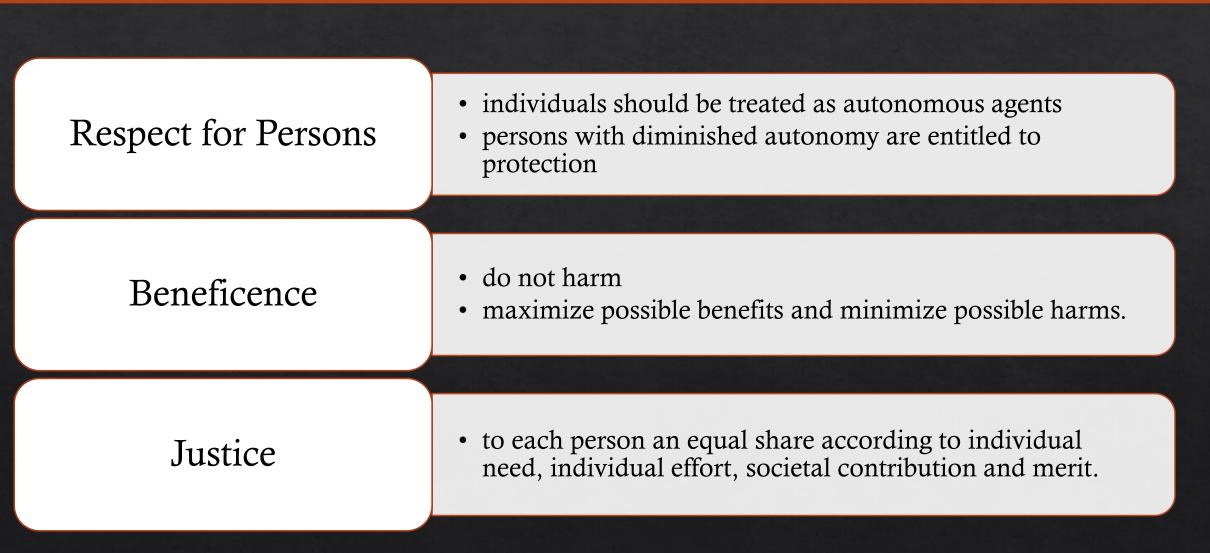
https://www.hhs.gov/ohrp/regulations-and-policy/regulations/45-cfr-46/index.html

IRB Review Process



Approved; Approved Pending Modifications; Deferred; Disapproved

The Belmont Report



https://www.hhs.gov/ohrp/regulations-and-policy/belmont-report/index.html



Risks are reasonable Risks and benefits that may result from the research.

Do not consider possible long-range effects of applying knowledge gained in the research as among those research risks.



Adequate provisions for confidentiality Consider if only minimum necessary data is collected.

Evaluate plan for access control, security – electronic and physical.



Risks are minimized Evaluate if the research design is sound. Evaluate if subjects will be exposed to unnecessary risks.

AND WE NEED NON-ALCOHOLIC

WOMEN FOR OUR CONTROL GROUP,

Adequate provisions for privacy

interest in controlling access to

Consider recruitment strategy.

themselves.

Privacy refers to persons and their

OF COURSE ANY OF YOU WHO DON'S

QUALIFY TO BE IN THE STUDY

CAN I FAVE AT ANY TIME

Antes

BROUP CONSENT PRESENT

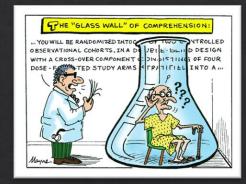


Subject selection is equitable Review eligibility criteria. Consider if research burdens and benefits are distributed fairly.



Data and Safety Monitoring DSMP for all studies greater than minimal risk.

Consider if safety and efficacy data will be reviewed, frequency of review and who will review this.



Informed Consent Consider if information provided is adequate. Consider who is giving consent and who is

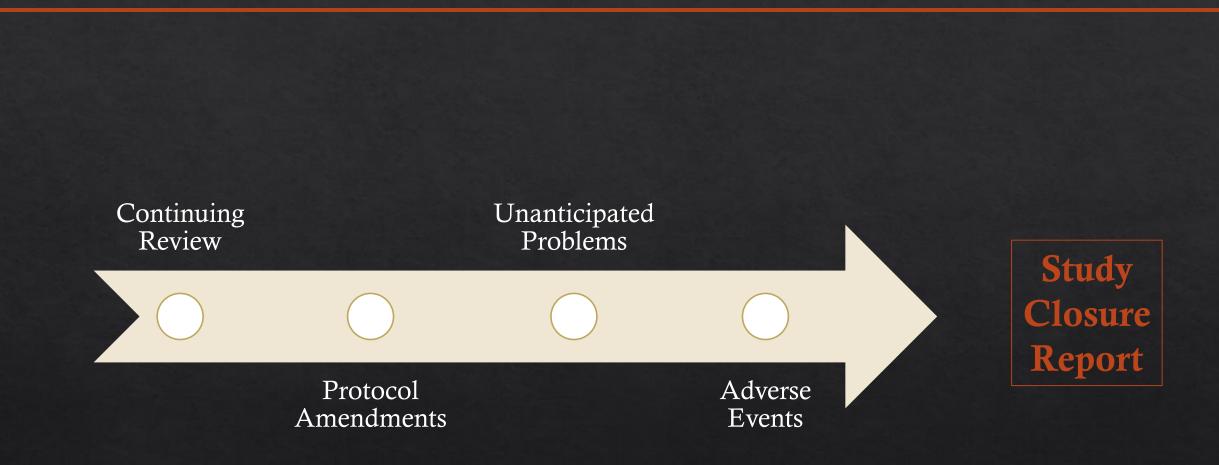
obtaining consent. Consider documentation of consent.

Additional protections for vulnerable populations.

Children – parental permission – one or both parents, assent. Risk category – no greater than minimal risk (404), greater than minimal risk with prospect of direct benefit to participant (405), minor increase over minimal risk with no prospect of direct benefit (406). *Pregnant women* – is there a prospect of biomedical benefits? *Prisoners*- specific regulatory criteria –

refer to policy.

IRB Oversight



THE BELMONT REPORT

HHS 45	CFR 46	FDA 21 CFR 50 FDA 21 CFR 56		
FDA IND RE	GULATIONS	FDA IDE REGULATIONS		
OHRP GUIDANCE	FDA GUIDANCE	ICH GCP	DECLARATION OF HELSINKI	
Institution P & P IRB P & P		Clinical Research SOPs	STUDY MOP	



GOOD CLINICAL PRACTICE GUIDELINES

Glossary	GCP Principles	IRB/IEC	Investigator Responsibilities
Sponsor	Clinical Trial	Investigator's	Essential
Responsibilities	Protocol	Brochure	Documents

References

- OHRP Regulations 45 CFR 46
- OHRP Guidance for Investigators
- FDA Regulations 21CFR 50; 21 CFR 56
- FDA Information Sheets IND
- FDA Information Sheets IDE

