

More Experience - Better Results

Ethics in Clinical Research

Zvi Ladin, Ph.D.

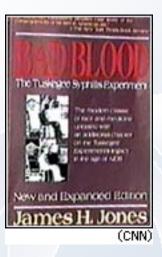
Historical Infamy

- Tuskegee syphilis study (1930s – 1972)
 - 399 black men signed with the US PHS for free medical service
 - Men were told they had 'bad blood'
 - Disease followed without treatment
 - Penicillin available since 1947
 - Outcome:
 - 28 men had died of syphilis
 - 100 others were dead of related complications
 - At least 40 wives had been infected
 - 19 children had contracted the disease at birth
 - Presidential apology (Clinton) 1997





(Courtesy National Archives)



Ethics = Right vs. Wrong

- ethics The rules or standards governing the conduct of a person or the conduct of the members of a profession.
- **Guiding Principles**
 - Ethical goals •
 - Protection of rights of human subjects •
 - Unbiased research •
- Underlying regulations
 - Declaration of Helsinki
 - loral compass US Food, Drugs and Cosmetics Law
- **Open** issues



Guiding Principles – Research Goals

- Ethical Goals
 - Improving clinical outcome
 - Physiological processes
 - Pathological mechanisms
 - New treatment modalities
 - Better healthcare delivery
 - Risk of malevolent application
 - Clinician participation in the development of biological or chemical weapons – goal antithetical to the medical profession







Guiding Principles – Focus on the Patient

- Patient Consent
 - Understanding the patient's predicament
 - Relationship of trust
 - Full disclosure
 - Remuneration (clinician / patient)
 - Clinical alternatives
- Balancing potential future harm and benefit
 - Use of placebo
 - Even in the existence of accepted treatment
- Early termination of a clinical study



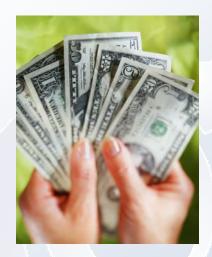


Guiding Principles – Unbiased Research

- Qualifications
 - Clinical
 - Research
 - Ethics
- Payments
 - Incremental costs of trial
 - To patient
 - To clinician
 - Remuneration commensurate with effort
 - Full disclosure







History of US Regulations

- 1947 Nuremberg Code
- 1964 Declaration of Helsinki
- June 16, 1966, NEJM Henry Beecher, MD
 - Ethics and Clinical Research 22 infamous examples
- 1960's Patient consent added to FDC
- 1970's IRB review of clinical protocols
 - 1972 NIH established OPRR (Office for Protection from Research Risks)
 - Risks and benefits of research
- 1981 FDA requires written patient consent



1998 OIG Report – Clinical Research's Shifting Environment

- Funding from public to private
 - NIH \rightarrow industry
- Nature from single site to multi-center
 - Limited information to local IRB
- Size and numbers



1998 OIG Report – Revamping the IRB

- Overwhelmed Local IRB
 - Time and expertise limiting review
 - New ethical issues (e.g. genetic screening)
- Evaluating IRB Effectiveness
- Conflict of Interest Inside the IRB
 - Part of the organization that gains from research
- Limited Training of IRB Members and Researchers



Open Issues

- Clinician Researcher and/or Physician
 - Separating consent from treatment
- International Studies
 - US IRB protocol approval (additional)
 - Consider local healthcare infrastructure
 - Patients' rights beyond study conclusion
- Data Safety Monitoring Boards
 - Adverse Events
 - Rate and severity
 - Relation to study
- Publication of Data from Unethical Studies



Quote of the Day

"An experiment is ethical or not at its inception; it does not become ethical *post hoc* – ends do not justify the means."

Ethics and Clinical Research, Henry K. Beecher, *NEJM* 274[24]:1354-1360



References

- Helsinki Declaration <u>http://www.wma.net/e/policy/b3.htm</u>
- AMA Code of Ethics <u>www.ama-assn.org</u>
- National Institutes of Health Ethics Program -<u>http://ethics.od.nih.gov/</u>
- Good Clinical Practice in FDA-Regulated Clinical Trials -<u>http://www.fda.gov/oc/gcp/default.htm</u>
- Protection of human subjects 21 CFR Part 50
- Ethics and Clinical Research. Henry K. Beecher. NEJM 274[24]:1354-1360, 1966
- Equipoise and the ethics of clinical research. B Freedman. NEJM 317[3]:141-145, 1987

