

**Human Subjects Research**

# **Human Subjects Research Protection Ethics and Institutional Review Boards**

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September 11<sup>th</sup>, 2025



Memorial Sloan Kettering  
Cancer Center

## Human Subjects Research Protection

# Disclosures: O'Reilly/Family

### Grant/Research Support to MSK

Celgene, Genentech-Roche, AstraZeneca, BMS, Silenseed, BioNTech, Arcus, Elicio, Digestive Care, Revolution Medicine

Lustgarten Foundation, NIH/NCI, NCI-CTEP, Reiss Family Foundation, Endeavor Foundation, Andrea J Will Foundation, Cycle for Survival, Parker Institute, Other Philanthropy

### Consulting/DSMB

Uncompensated: Arcus, Amgen, AstraZeneca, Ability Pharma, Alligator BioSciences, Pfizer, Agenus, BioNTech, Ipsen, Ikena, Merck, Moma Therapeutics, Novartis, Astellas, BMS, Revolution Medicines, Regeneron, Tango Therapeutics

Travel: BioNTech, Arcus

**Human Subjects Research Protection**

**Disclosures: Tuttle**

**Grant/Research Support to MSK**

Elesta

**Consulting/DSMB**

None

# Agenda

What is research?

What is an IRB/PB?

Roles & responsibilities of IRB/PB

Research regulatory oversight

MSK systems, DSMC

Early phase trial designs

Research biopsies

Compensation for research



## Human Subjects Research Protection

# What is Research or Not?

1. Retrospective record review to prepare case report?
2. Testing on de-identified specimen?
3. Retrospective record review to determine patterns of drug resistance?
4. Quality of life questionnaire in cancer patients?
5. Post-market survey on safety of contact lenses?

# Practice vs Research Definitions

## Practice

- The use of accepted (standard) therapy for the benefit of an individual

## Research '45 CFR 46'

- An activity to test a hypothesis that will contribute to generalizable knowledge

Characteristics that always require IRB review

- Use of FDA test articles: drugs, devices, biologics
- Randomization

# Dept Health Human Services Research Definition

## Research

Systematic investigation, including research development testing, and evaluation, designed to develop or contribute to generalizable knowledge *45 CFR 46.102(d)* Common Rule

## Definitions

- **Systematic investigation**  
Predetermined method for studying a specific topic, answering a specific question(s), testing a specific hypothesis(es), or developing theory
- **Design**  
meaning goal, purpose, or intent— develop/ contribute to **generalizable knowledge**  
Draw general conclusions, inform policy, generalize findings beyond single individual or internal program

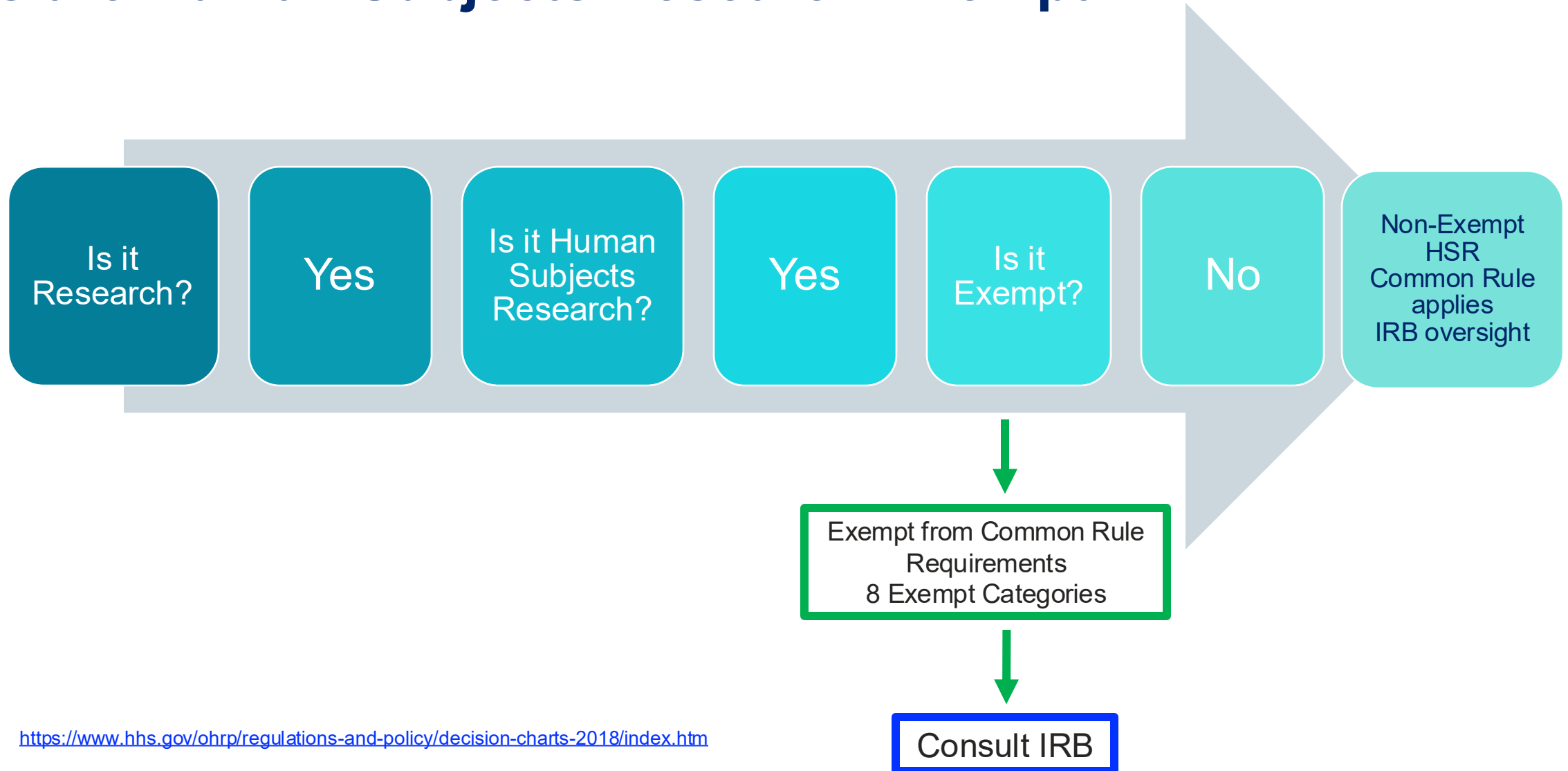
## Human Subjects Research Protection

# Research: Ask These Questions?

1. Does activity involve **Research**?
2. Does research involve **Human Subjects**?
  - Living individual about whom an investigator is conducting research
3. Is the Institution **Engaged**?
  - One whose agent (faculty) recruit and secure consent from subjects, conduct research or receive/share private, identifiable information, identifiable biospecimens
4. Is the human subjects research **Exempt**?
  - Subset of minimal risk involving human subjects does not require approval by IRB

## Human Subjects Research Protection

# Is the Human Subjects Research Exempt?



**What is an IRB?**



# Differing Perspectives on Safety Requirements



## Human Subjects Research Protection

# Institutional Review Board (IRB), Types, Membership

Institutional Review Board: Committee established to review and approve research regarding human subjects

Purpose of IRB: Ensure that human subjects research is conducted in accordance with federal, institutional, ethical and other regulatory guidelines

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Commercial

---

Central

---

Institutional

---

### IRB composition $\geq 5$ members

- At least 1 scientist
- At least 1 non-scientist
- At least 1 lay-member/unaffiliated
- Sufficient qualification: experience, expertise
- Invited member for specific expertise



# IRB/ Independent Ethics Committee Mission

Promote



- Rights and welfare of human subject participants

Facilitate



- Excellence in human subject's research by providing timely and high-quality review

Provide



- Professional guidance, support research community

## Human Subjects Research Protection

# IRB, Privacy Board

### Privacy Board (PB)

- Governed by privacy regulations (i.e., HIPAA), set forth by Office of Civil Rights

### Purpose of PB

- Ensure research meets requirements for proper oversight of participant data

# Ethics and Clinical Research: Quote Bioethicist

The ethical issues raised by medical experimentation with human's hinge on one question:

How can the rights of the individual person be reconciled with the demands of the scientific enterprise?

## Human Subjects Research Protection

# What Makes Clinical Research Ethical?

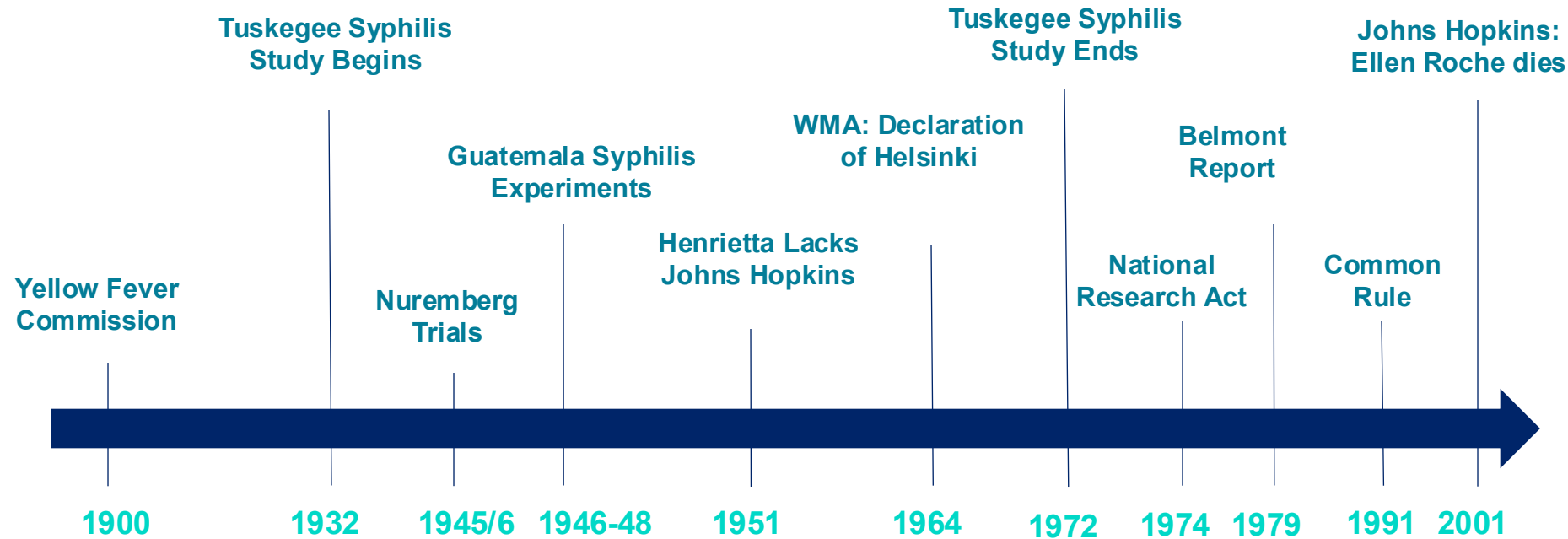
| Requirement                  | Justification                                                                           | Ethical Principle(s)           |
|------------------------------|-----------------------------------------------------------------------------------------|--------------------------------|
| Social, scientific value     | Improves health, well-being, knowledge                                                  | Justice                        |
| Scientific validity          | Use of rigorous science, statistics – reliable, valid data                              | Respect                        |
| Equitable selection          | Vulnerable individuals not selected for risky study                                     | Respect<br>Justice             |
| Favorable risk/benefit ratio | Minimization of risks, maximization of benefit                                          | Beneficence<br>Non-maleficence |
| Independent review           | Public accountability, conflict, disclosure                                             | Respect                        |
| Informed consent             | Education about aims, risk, benefit                                                     | Autonomy                       |
| Respect for person           | Permit withdrawal, privacy, confidentiality, update risks, results, maintaining welfare | Autonomy<br>Justice            |

# **Roles & Responsibilities of an IRB**



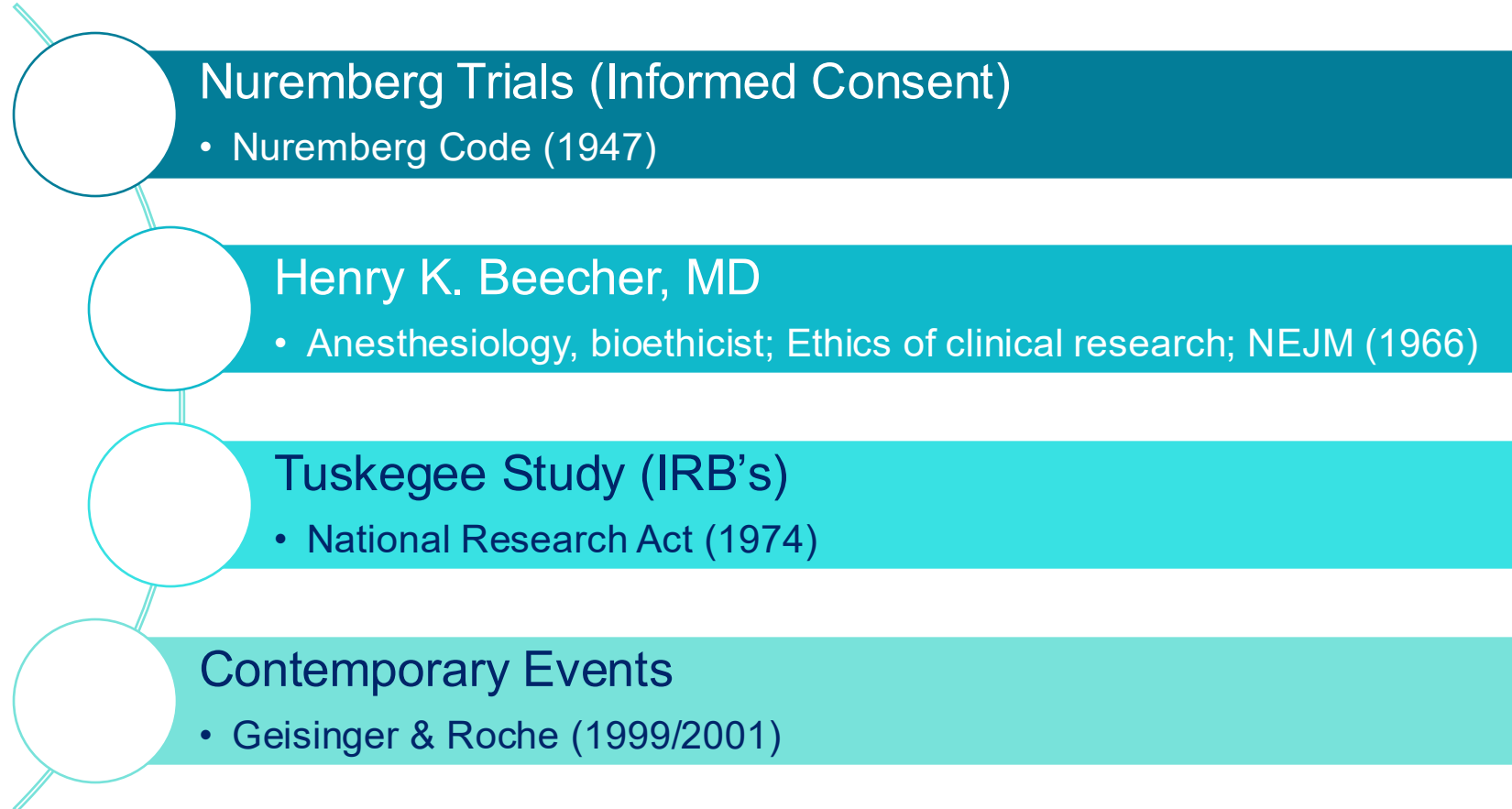
# Human Subjects Research Protection

## History of Informed Consent



## Human Subjects Research Protection

# Historical Events



# Nuremberg Code Established 1948

The Code prototype of many later codes intended to ensure that research involving human subjects would be carried out in ethical manner:

- Voluntary consent
- Research necessary
- Reduce risk
- Qualified individuals

Nuremberg Code landmark document;  
Little response when issued....

- 'Researchers working in democratic countries would not do such things....'
- '....need to restrain barbarians...' not applicable to...'rest of us'



Human Subjects Research Protection

# Tuskegee Syphilis Study (1932- 1972)

1932 United States PHS

Macon County, Alabama  
Evaluate untreated syphilis in  
black men

N= 400 infected

N= 200 uninfected controls

Followed x 40 years

Publications 1936 → 1960's



**GERA  
DI  
AGAIN**

**HUNDREDS OF  
BLACK MEN  
DISCOVERED  
MASSACRED  
IN SYPHILIS  
"EXPERIMENT"**

SEE ARTICLE INSIDE PAGE 5

## Human Subjects Research Protection

# Tuskegee Experiments Cont.

- Participants were not informed about their disease or participation
- No consent
- Penicillin identified as curative therapy in 1943, widely available 1950's; not utilized
- July 26<sup>th</sup>, 1972, Jean Heller investigative reporter AP: New York Times, Washington Star
- President Clinton – formal apology 1979

### *Syphilis Victims in U.S. Study Went Untreated for 40 Years*

Share full article

By Jean Heller The Associated Press  
July 26, 1972



The New York Times Archives

### **Tuskegee Syphilis Experiment Exposed by *Washington Star* Newspaper**



## Human Subjects Research Protection

# Declaration of Helsinki (1949)

### 1964 World Medical Association

- Recommendations guiding biomedical research in human subjects

### Declaration

- Governs international research ethics and sets rules for research combined with clinical care and non-therapeutic research

### Declaration of Helsinki

- Basis for Good Clinical Practice (GCP) followed in most clinical trials today
- Expands on voluntariness of Nuremberg Code

## Human Subjects Research Protection

# National Research Act 1974

National Research Act (Pub. L93-248)

National Commission for Protection of Human Subjects of Biomedical and Behavioral Research

- Identify basic ethical principles that underlie the conduct of biomedical and behavioral research involving human subjects
- Develop guidelines to assure that research conducted according to these principles
  - Informed consent
  - Institutional Review Boards

## Human Subjects Research Protection

# Belmont Report Basis of '111 Criteria'

National Commission 1979

### Respect for Persons

- Informed Consent
- Voluntariness; individual autonomous; if diminished - protection
- Confidentiality

### Beneficence

- Risk/Benefit Assessment: Minimize harm, maximize benefit (individual, society)
- Procedures – least risky

### Justice

- Selection of participants without bias
- Burden and benefits shared
- Who is equal and who is unequal?

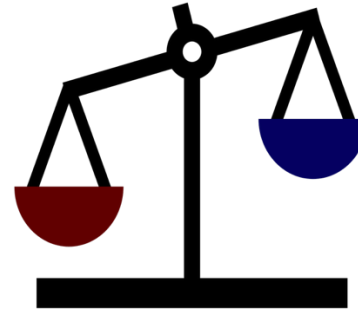
### (Non-maleficence)

- Added later
- Associated with 'primum non nocere'

# Guiding Principles for Ethical Research

## 1. Social and clinical value

*Minimize* risk and burden to research participants



*Increase* understanding and improvement of health

## 2. Scientific validity

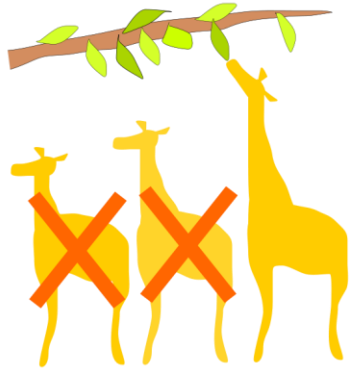


Is the research designed to answer the question?

## Human Subjects Research Protection

# Guiding Principles for Ethical Research

### 3. Fair subject selection



Primary criteria for recruiting participants should be scientific goals of study

- *Inclusive* to all who meet criteria
- *Protects* vulnerable populations or those who may be subject to undue coercion or influence

### 4. Favorable risk-benefit ratio

- Risks physical, psychological, economic, social
- Obligation to *minimize the risks* and inconvenience to participants and *maximize the potential benefits*



# Guiding Principles for Ethical Research

## 5. Informed Consent

- Description of study and what to expect
- Voluntary participation
- Identification of risks, benefits, alternatives
- Costs

## 6. Independent Review

- Manage potential conflicts of interest
- Disclosure

## 7. Respect

- Respect autonomy, right to make own decision on participating
- Privacy

# **Research Regulatory Oversight**



## Human Subjects Research Protection

# US Federal Reform

| Year | Entity                                              |
|------|-----------------------------------------------------|
| 1966 | FDA policy guidelines                               |
| 1971 | NIH policy guidelines                               |
| 1974 | DHEW codified policies                              |
| 1991 | Federal policy 'Common Rule'                        |
| 1996 | Health Insurance Portability and Accountability Act |
| 2015 | Revisions to 'Common Rule'                          |
| 2018 | Revisions to 'Common Rule' implemented              |

## Human Subjects Research Protection

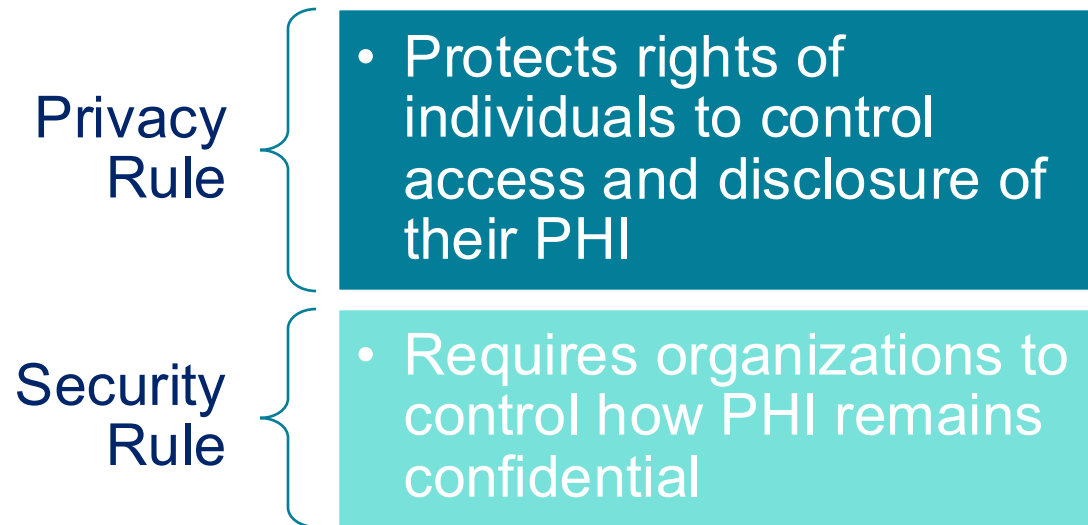
# Federal Structure

## Department of Health and Human Services (DHSS)

- Office for Human Research Protection (OHRP)
- Food and Drug Administration (FDA)
- Office of Civil Rights (OCR)

## Human Subjects Research Protection

# HIPAA: Health Insurance Portability, Accountability Act



### 18 elements Protected Health Information (PHI)

1. Names
2. Geographical elements
3. Dates related health, identify
4. Telephone numbers
5. Fax numbers
6. Email addresses
7. Social security numbers
8. Medical record numbers
9. Health insurance beneficiary numbers
10. Account numbers
11. Certificate/license numbers
12. Vehicle identifiers
13. Device attributes or serial numbers
14. Digital identifiers, website URL's
15. IP addresses
16. Biometric data – finger, retinal, voiceprints
17. Photographs of face
18. Other identifying numbers, codes

# What is a Research Authorization?

## Research Authorization (RA)

- Protocol specific document signed by participant at enrolment on research protocol
- Obtains approval from participant regarding use/disclosure of PHI for research purposes
- Detailed description of how PHI will be shared

## Right to Revoke RA

- Participants can decline to sign RA
- Can withdraw from study at any time
- Privacy regulations require written revocation for subsequent use of PHI
- If data used; cannot be retroactively applied

## Human Subjects Research Protection

# Common Rule Regulations 45 CFR 46

### *Code of Federal Regulations*

#### **TITLE 45 PUBLIC WELFARE**

#### **Department of Health and Human Services**

#### **PART 46 PROTECTION OF HUMAN SUBJECTS**

\*\*\*

Revised January 15, 2009  
Effective July 14, 2009

##### **SUBPART A— Basic HHS Policy for Protection of Human Research Subjects**

Sec.

46.101 To what does this policy apply?

46.102 Definitions.

46.103 Assuring compliance with this policy—research conducted or supported by any Federal Department or Agency.

46.104- [Reserved]  
46.106

46.107 IRB membership.

46.108 IRB functions and operations.

46.109 IRB review of research.

46.110 Expedited review procedures for certain kinds of research involving no more than minimal risk, and for minor changes in approved research.

46.111 Criteria for IRB approval of research.

46.112 Review by institution.

46.113 Suspension or termination of IRB approval of research.

46.114 Cooperative research.

46.115 IRB records.

46.116 General requirements for informed consent.

46.117 Documentation of informed consent.

46.118 Applications and proposals lacking definite plans for involvement of human subjects.

46.119 Research undertaken without the intention of involving human subjects.

46.120 Evaluation and disposition of applications and proposals for research to be conducted or supported by a Federal Department or Agency.

46.121 [Reserved]

46.122 Use of Federal funds.

46.123 Early termination of research support: Evaluation of applications and proposals.

46.124 Conditions.

##### **SUBPART B— Additional Protections for Pregnant Women, Human Fetuses and Neonates Involved in Research**

Sec.

46.201 To what do these regulations apply?

46.202 Definitions.

46.203 Duties of IRBs in connection with research involving pregnant women, fetuses, and neonates.

46.204 Research involving pregnant women or fetuses.

46.205 Research involving neonates.

46.206 Research involving, after delivery, the placenta, the dead fetus or fetal material.

46.207 Research not otherwise approvable which presents an opportunity to understand, prevent, or alleviate a serious problem affecting the health or welfare of pregnant women, fetuses, or neonates.

**Subpart A:** Basic HHS Policy for Protection of Human Research Subjects ‘Common Rule’

**Subpart B:** Additional Protections for Pregnant Women, Human Fetuses and Neonates Involved in Research

**Subpart C:** Additional Protections Pertaining to Biomedical and Behavioral Research Involving Prisoners as Subjects

**Subpart D:** Additional Protections for Children Involved as Subjects in Research

**Subpart E:** Registration of Institutional Review Boards

## Human Subjects Research Protection

# Subpart D: Research in Children

### Definition

- Person who has not attained legal age of consent
- IRB determines 1-4 categories

### Assent

- Child's affirmation to participate in research
- MSK Assent age 7- 17 years (or waiver based on age, maturity, cognition, etc.)

### Permission

- Agreement of parent(s) or guardian (designated by state/local law)

| Level           | Description                                                                                                                                                                           | Consent           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Minimal         | No greater than minimal risk                                                                                                                                                          | 1 parent          |
| <b>Standard</b> | <b>Greater than minimal risk but presenting prospect of direct benefit</b>                                                                                                            | <b>1 parent</b>   |
| High            | Greater than minimal risk & no prospect of direct benefit; Likely to yield generalizable knowledge                                                                                    | 2 parents         |
| Highest         | <i>IRB determines this research does not meet 45 CFR 46.404, 46.405, 46.406, but opportunity to understand, prevent, or alleviate a serious problem affecting welfare of children</i> | <i>Not at MSK</i> |

## Human Subject Research Protection

# IRB Review; Reporting to Dept. Health Social Services

### IRB Review

1. Exempt research
2. Protocol, consent form, research authorization
3. Continuing review, progress review reports
4. Amendments protocol, consent
5. Serious adverse events, non-compliance, unanticipated problems

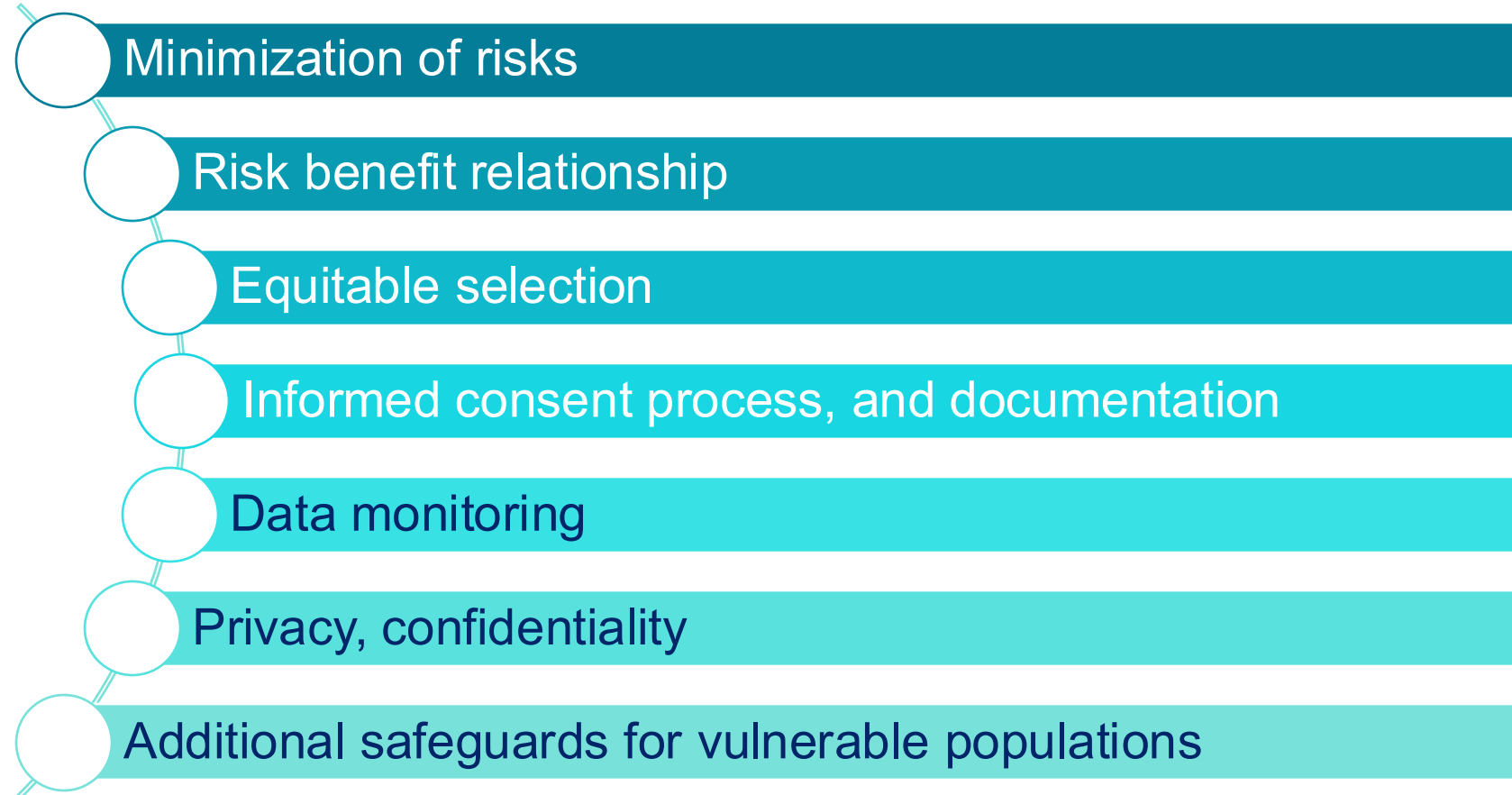
### IRB Reporting to DHSS

1. Membership changes
2. Serious non-compliance
3. Unanticipated problems, increased risk
4. Suspension or termination by IRB
5. Investigator misadventures

## Human Subjects Research Protection

# IRB Criteria for Research Approval '111 Criteria'

45 CFR 46.111, 21 CFR 56.111



## Human Subjects Research Protection

# Levels of IRB Review

### Non-Human Subjects Research (NHSR)

- Determination of NHSR
- Does not meet definition of 'research' and/or 'human subjects'

### Exempt Research

- Exempt determination
- Generally low risk: 8 exemption categories  
<https://www.hhs.gov/ohrp/regulations-and-policy/guidance/faq/exempt-research-determination/index.html>

### Expedited Research

- Expedited review
- Minimal risk: 9 expedited categories  
<https://www.hhs.gov/ohrp/regulations-and-policy/guidance/categories-of-research-expedited-review-procedure-1998/index.html>

### Full Board Review

- Greater than 'minimal' risk
- Minimal risk research not eligible for 'exempt' or 'expedited' review

## Human Subject Research Protection

# Risk Categories MSK

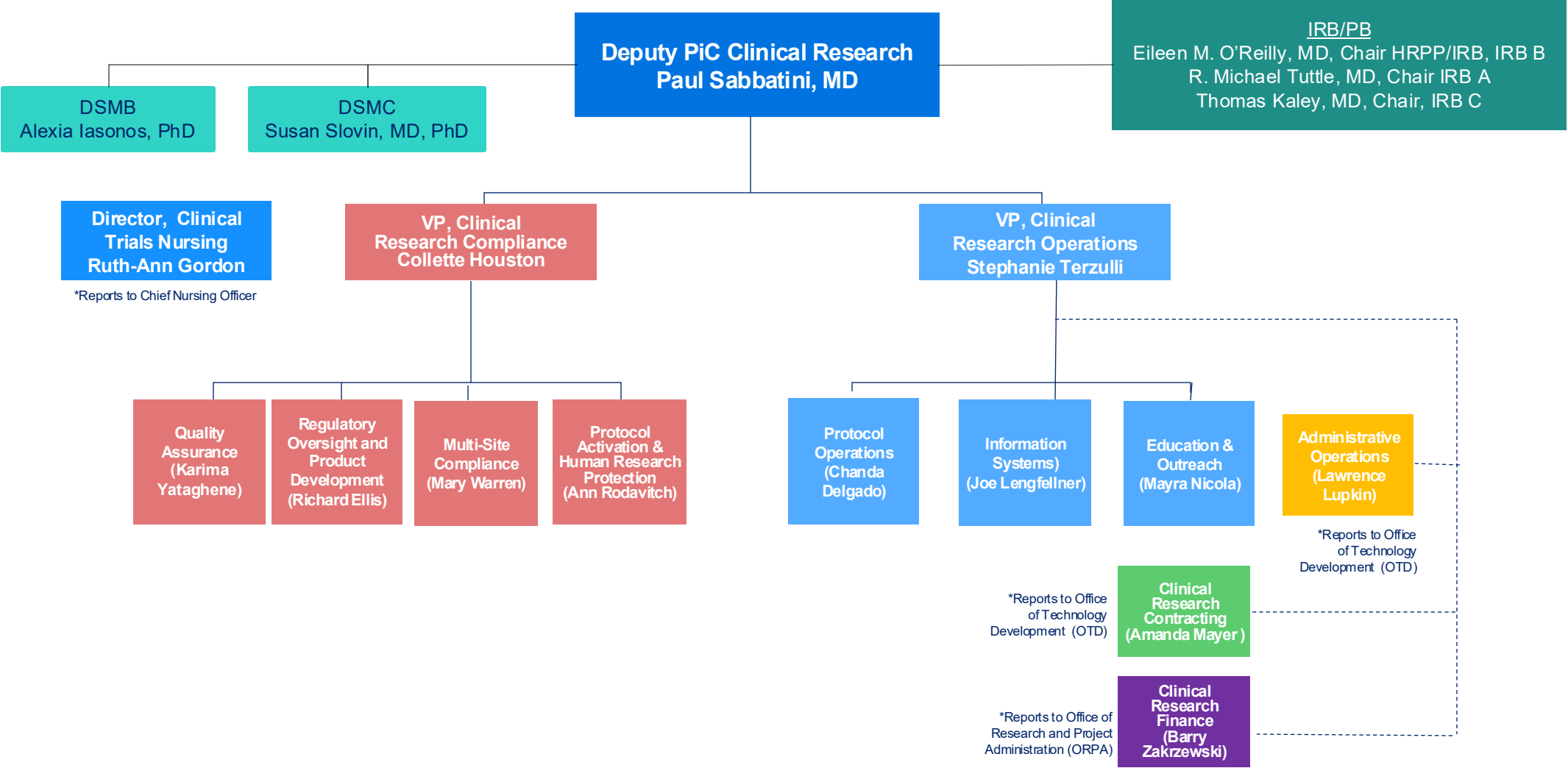
| Level    | Description                                                                                                                 |
|----------|-----------------------------------------------------------------------------------------------------------------------------|
| Low      | Probability of harm/ discomfort not greater than daily life or routine physical/ psychological exam                         |
| Moderate | Risks reasonable in relation to anticipated benefits and importance of knowledge gained                                     |
| High     | Greater than minimal risk; may/may not have direct benefit to subject<br>Risks are high in relation to anticipated benefits |

# **MSK Systems, Data & Safety Monitoring**



# Human Subjects Research Protection

## Clinical Research Organization Chart



## Human Subjects Research Protection

# MSK IRB Structure

### IRB/PB A

- Tues 3- 5 pm
- 2<sup>nd</sup>, 4<sup>th</sup> each month

### IRB/PB B

- Wed 7.30- 9 am
- 1<sup>st</sup>, 3<sup>rd</sup> each month

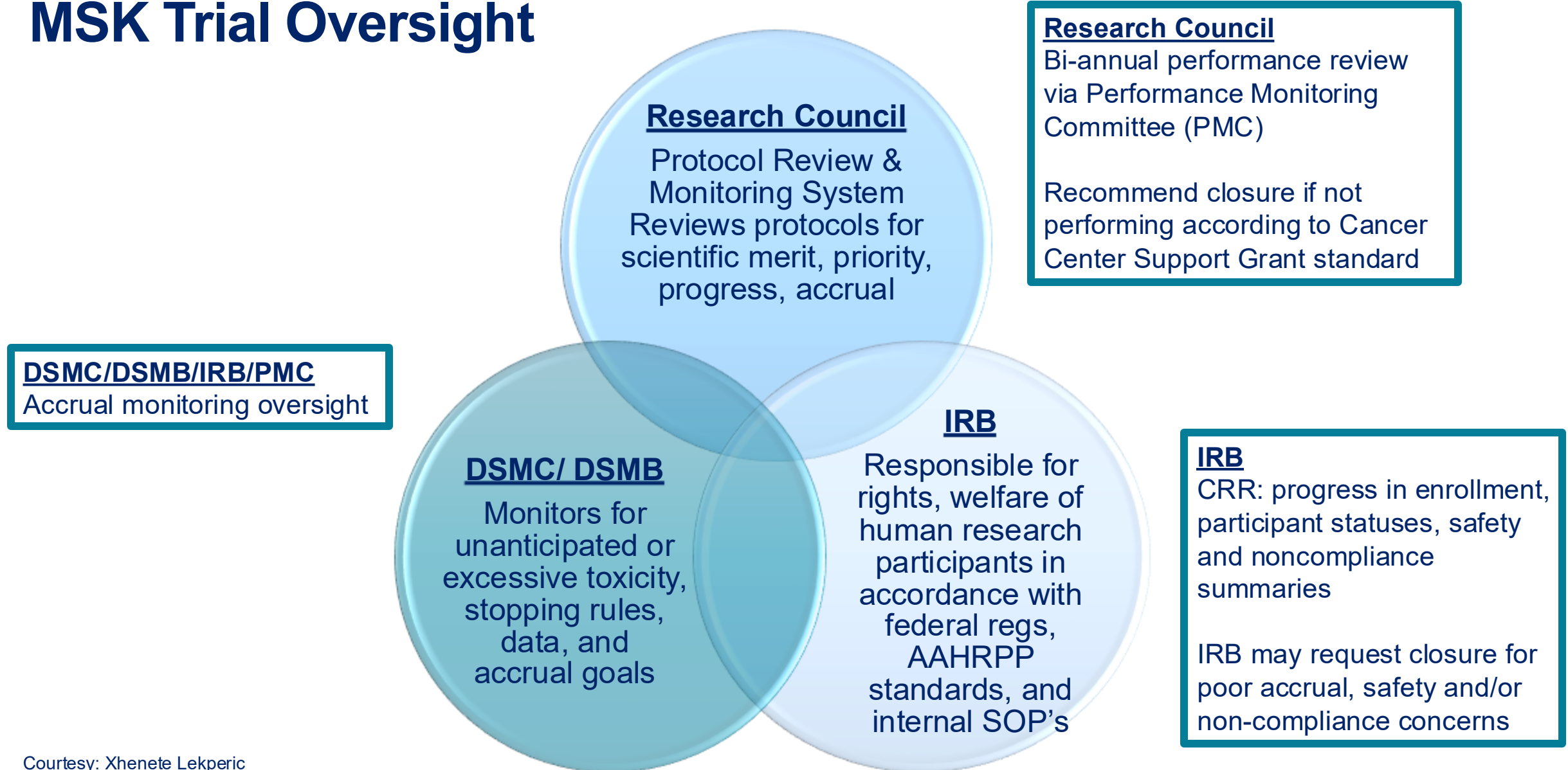
### IRB/PB C

- Thurs 7.30- 9 am
- 2<sup>nd</sup>, 4<sup>th</sup> each month

Each board reviews all types of IRB submissions  
Visitors welcome

# Human Subjects Research Protection

## MSK Trial Oversight



# Human Subjects Research Protection

## MSK Clinical Research Protocol

The screenshot shows the MSK Clinical Research SharePoint site. The top navigation bar includes the SharePoint logo, a search bar, and user information for Michael Tuttle. Below this is the 'OneMSK' header with links to various organizational sections. The main header for the 'Clinical Research' site includes a 'CR' icon and a 'Home' link. A secondary navigation bar lists categories like CRA, CR COMPLIANCE, CR OPERATIONS, and others. The main content area features a large banner for 'Clinical Research Administration (CRA)' with an 'Access here' link, and a grid of four tiles: 'Epic and Clinical Research', 'MSK IRB/PB', 'CR SOPs', and 'IRB/PB SOPs'.

SharePoint

Search this site

OneMSK On Call Schedules Patient Care & Locations Research Education My Career & Benefits Our Organization Resources My Favorites

CR Clinical Research

Home CRA CR COMPLIANCE CR OPERATIONS Epic and Clinical Research NEWS & EVENTS CR at MSK CR SYSTEMS CR TRAININGS ...

☆ Not following

Clinical Research Administration (CRA)

Access here →

Epic and Clinical Research

MSK IRB/PB

CR SOPs

IRB/PB SOPs

<https://mskcc.sharepoint.com/sites/pub-ClinResearch/SitePages/Home.aspx>

# Early Phase Trial Design



## Human Subjects Research Protection

# Traditional Clinical Trial Designs Phase I → 4



Phase I trials: Critical role in downstream clinical development; informed by design, implementation, interpretation of clinical trial designs

# Ethical Issues in Phase I Trials

Why?

Transition point in illness

Exhausted standard therapies

Phase I trials unique importance  
in drug development

Lots of intersection of ethics and early phase clinical trials

Some examples:

- Patient illness trajectory
- Risk – benefit considerations
- Informed consent
- Research biopsies
- Therapeutic misconception, misestimation
- Clinical trial reporting

# Risks, Benefits to Early Phase Trial Participation

- Most patients enroll in phase I trials with hope of cancer control and improved survival
- Oncologist, professional organizations, advocacy groups encourage trial enrollment

## Risks

- Incremental burden participation (travel, time, foregoing end of life care, expense)
- Risks from study medications
- Risks research procedures (biopsies, correlative studies)

## Gains

- Enhanced interaction with health care team
- Potential for improved outcome – hard to estimate ~10% (6-14%) – surrogate measures of outcome e.g., response rate (unknown impact on QoL, survival)
- Precision medicine – greater potential for benefit

# Human Subjects Protection Informed Consent Form (ICF) – Participant Level

## Risk section

- Approximate frequencies of expected side effects
- Theoretical risks if new agent/class
- ICF's do not indicate that a 'toxicity risk target' is goal
- Should this be more clearly stated?
- No standard policy

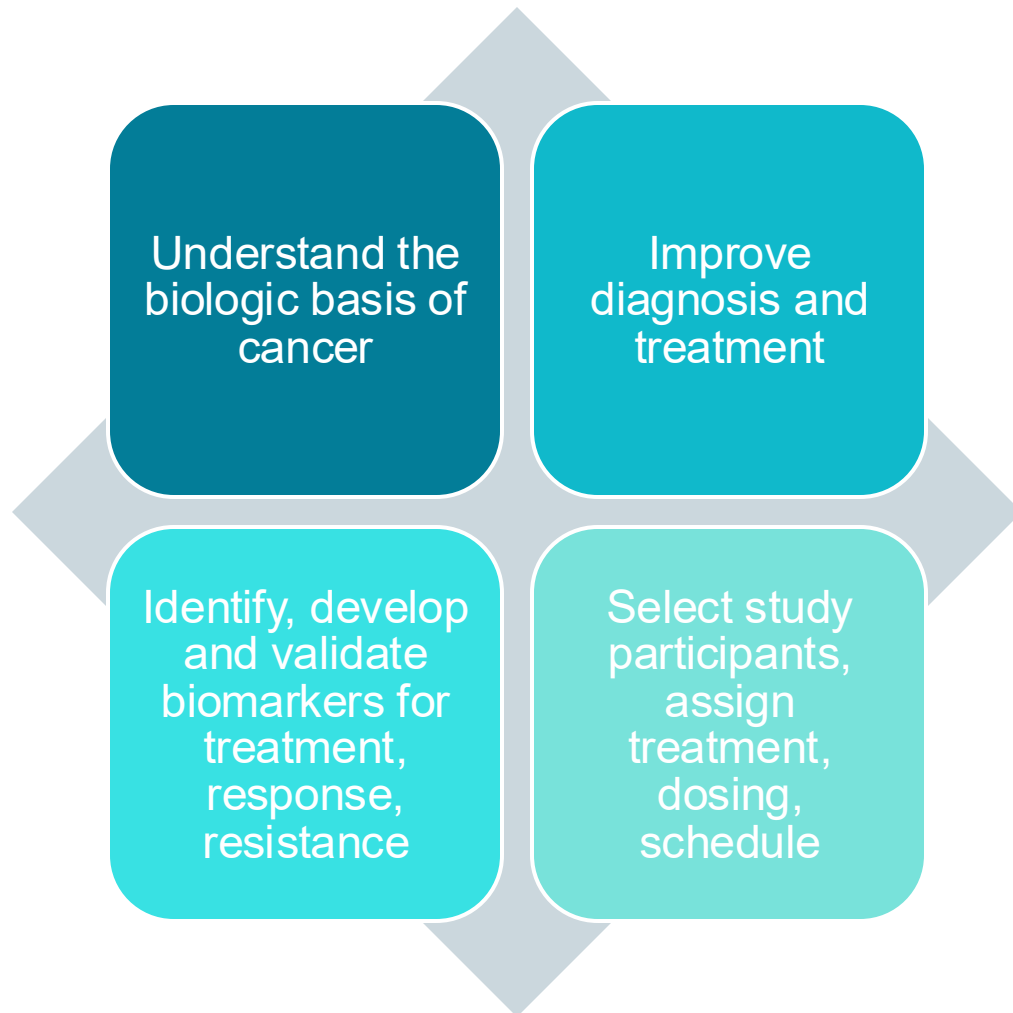
## Acceptability

- Curative intent
- Compelling pre-clinical data, rationale for pathway targeting
- Risks outweigh benefits for 'high risk, high toxicity'

# Research Biopsies



# Research Biopsies: Why Are They Performed?



- **Scientific contribution**  
Debated: value derived tissue analyses?  
Unknown vs potential vs expected?  
No direct benefit to participant
- Optional vs mandatory biopsies  
May depend on study phase
- Separate vs add on biopsy
- Research biopsy analyses frequently not reported
- Regulatory, IRB oversight concerns

# Ethical Arguments For and Against Mandatory Research Biopsies in Clinical Trials

| Pro Side                                                                                                                                                                 | Against                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Unethical to avoid biomarker development</li><li>• Mandatory research biopsy does not limit access to standard therapy</li></ul> | <ul style="list-style-type: none"><li>• Mandatory biopsies – form of coercion when paired, or access to investigational agent</li></ul>                 |
| <ul style="list-style-type: none"><li>• Mandatory biopsies acceptable in context of risk-benefit</li><li>• Acceptable if correlative assay validated</li></ul>           | <ul style="list-style-type: none"><li>• Research biopsies should be optional if scientific value of correlative question not well established</li></ul> |
| <ul style="list-style-type: none"><li>• Include 'opt-out' section in informed consent</li></ul>                                                                          | <ul style="list-style-type: none"><li>• Optional biopsies – statistically underpowered – can be uninterpretable</li></ul>                               |

# Vulnerable Populations: Children & Research Biopsies

## Title 45 CFR 46 Subpart D

- Risk level of research
- Type of biopsy, site, accessibility, etc.
- Risk-benefit analysis
- Opportunities to obtain information in another way – ‘liquid’ biopsies, imaging, etc.
- Dual role of clinician, researchers

## IRB Discussion

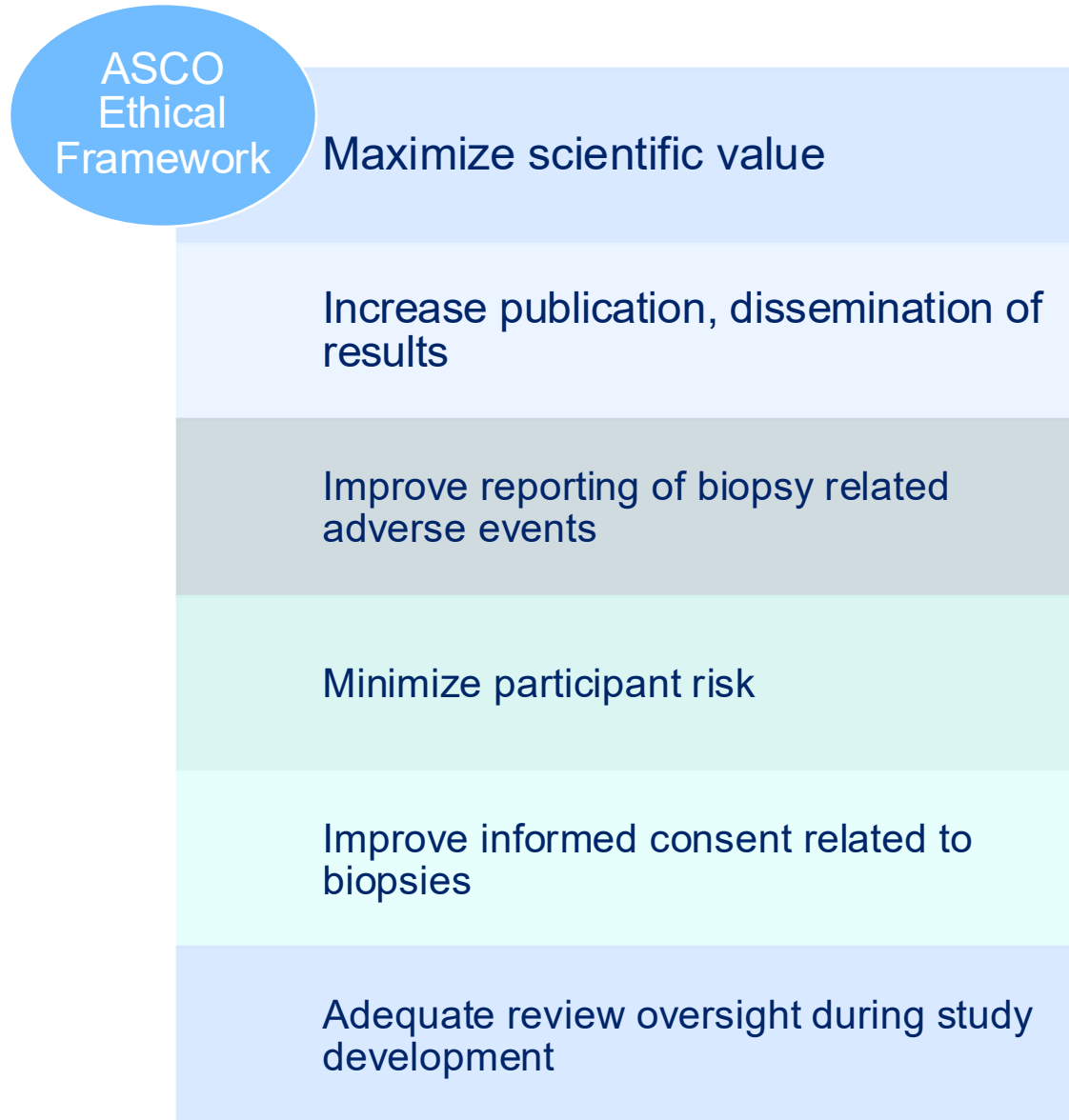
- Consultation with IRB  
[Very little guidance published on topic]

# Human Subjects Protection

# Research Biopsies

# Recommendations

ASCO Position Statement



## Research Compensation

# Research Payments: Background, Context

- Practice is long-standing
- Issue of substantial debate, contention, legal, ethical concerns – coercion, undue influence?
- Little guidance on topic, including regulatory oversight
- **‘Research exceptionalism’**  
Concerns about payment to research participants differs to payment in other situations  
Is research meaningfully different from other contexts in life where risk assumed?
- Largent et al argue:  
Against research exceptionalism  
Recommend: definitions, regulatory oversight, whether participants are paid enough?  
Encourage default position: Favor research compensation

## Research Compensation

# Case Example: Research Participant Payment

Phase I, first-in-human BIA 10-2474 (anxiety, motor disorders in Parkinson's disease, chronic pain)

N= 6 men enrolled; 1 RIP

€1,900 (\$2,500), travel expenses, inpatient stay x 2 weeks, extensive blood tests (> 40 samples), medical tests, etc

- Was it acceptable to offer this level of compensation? If not, why not?

## Research Compensation

# Research Compensation: Why, Which, When, How Much?

### Why Payment is Ethically Concerning?

- Important, perhaps essential tool to complete enrollment?
- Evil or legitimate compensation for services?
- Minority advocate: research altruism – no compensation
- Most agree acceptable, reasonable:  
Concerns – amount, timing, context
- Coercion vs inducement and render consent invalid?

### Which Participants Receive Payment? When?

- Research participants – selected via inclusion, exclusion strategies
- Healthy volunteers vs individuals with health concerns – should these be considered separately?
- Should payment be permitted if potential for benefit?
- Receipt during, on completion, bonus?

### Why Payment? How Much?

- Reimbursement for research related expenses
- Compensate for time/effort
- Recruitment incentive
- Gesture of appreciation
- Benefit to research participant – risks to participation reasonable relative to benefits?
- 2005: 467 studies \$0- 2,000; Most < \$250

## Research Compensation

# Research Compensation: Default to 'Yes'

### Rationale

- Changing default to favor payment – remove 'research exceptionalism'
- Little evidence that undue inducement is credible concern in practice
- Little evidence that payments lead to irrational choices by research participants
- Promotes wider inclusion of participants – under-represented minorities, diversity

### Furthering the argument....

- Perhaps real concern: Participants are undercompensated?
- Participants should not have to pay for making a contribution to societal good
- Compensate similar to what would be expected outside of a research setting

### Theoretic issues

- Harms from overpayment typically overstated
- Harms from underpayment typically understated, ignored

## Research Compensation

# Research Compensation: Regulatory Oversight

- Belmont Report
- The Common Rule: Federal Policy for Protection of Human Subjects (45 CFR 46 '111 criteria')  
FDA equivalent  
<https://www.fda.gov/regulatory-information/search-fda-guidance-documents/payment-and-reimbursement-research-subjects>  
IRB Members, investigators

...minimize '**coercion** or **undue influence**'...

Common Rule: Does not define either term, or directly address payment

- OHRP Office Human Research Protection (2000)  
Provides clarification, guidance, develops educational programs, materials, maintains regulatory oversight, provides advice on ethical, regulatory issues in biomedical, behavioral research  
<https://www.hhs.gov/ohrp/regulations-and-policy/guidance/faq/informed-consent/index.html>

## Human Subjects Protection

# Conclusions: Ethics and Early Phase Clinical Research

Large body of literature; many ethical challenges exist (research payments, etc.)

Tensions – expedient drug development vs safety, optimal dosing, risk/benefit

Collaboration: Participants, oncologists, biostatisticians, regulatory environment (IRB, FDA, other), social scientists, bioethicists, psychologists

Thoughtful oversight, discussion and review

# Human Subjects Research Protection

## Resources & Websites

1. Ethical and Regulatory Aspects of Clinical Research; Ezekiel J. Emanuel, et al
2. Ethics and Regulation of Clinical Research; Robert J. Levine
3. Institutional Review Board Management and Function; Robert Amdur & Elizabeth Bankert
4. Protecting Study Volunteers in Research – A Manual for Investigative Sites; Cynthia Dunn & Gary L. Chadwick

FDA [www.fda.gov](http://www.fda.gov)

NIH [www.nih.gov](http://www.nih.gov)

OHRP <https://www.hhs.gov/ohrp/>

FDA IRB Guidance [www.fda.gov/oc/oha/IRB/toc.html](http://www.fda.gov/oc/oha/IRB/toc.html)

Code of Federal Regulations [www.access.gpo.gov/nara/cfr/cfr-table-search.html](http://www.access.gpo.gov/nara/cfr/cfr-table-search.html)

# Thank you!

Ann Rodavitch, MA, Senior Director Protocol Activation & HRPP

Roy Cambria, BS, Director, HRPP

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# Questions?

