





Central Institutional Review Board (CIRB):

Revised Procedures, Accreditation Update, & Cost-Benefit Analysis

Meg Mooney, MD, Jacquelyn Goldberg, JD, and Todd H. Wagner, PhD
Clinical Trials Advisory Committee Meeting
November 4, 2009

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

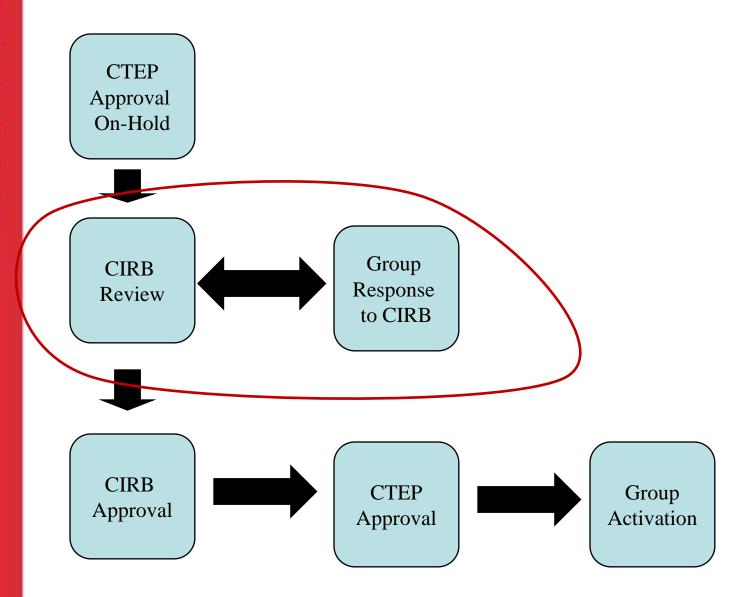
## **CIRB:** Overview of Presentation

- Revised Procedures for Initial Review of Phase 3 Trials by Adult CIRB
  - Meg Mooney, MD
- Accreditation Update for Adult & Pediatric CIRB
  - Jacquelyn Goldberg, JD
- Cost-Benefit Analysis
  - Jacquelyn Goldberg, JD, NCI, CIB, CTEP, DCTD
    - goldberj@mail.nih.gov
  - Todd Wagner, PhD, VA Palo Alto & Stanford University
    - twagner@stanford.edu

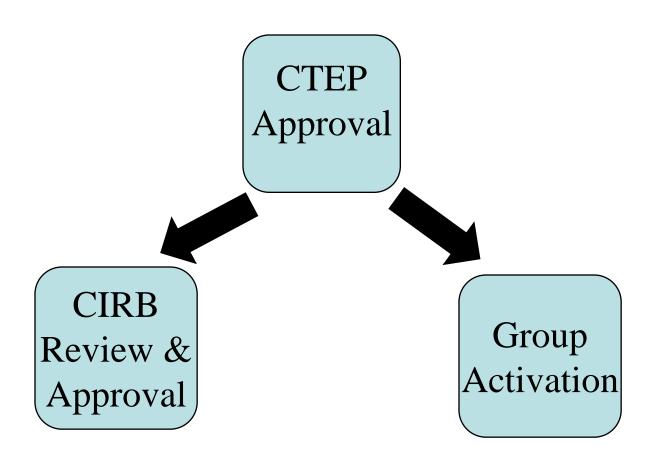
## CIRB: Revised Initial Review Procedures

- Improve timelines for initial review by the Adult CIRB
- Allow activation of study by sites not participating in Adult CIRB as soon as possible
- Promote dialogue about important human subjects protection issues related to trials

# CIRB: Legacy (Sequential) Process for Initial Review



# CIRB: New (Parallel) Process for Initial Review (aka C-PIRAT)



# Revised Procedures Include Multiple Changes in Addition to Parallel Review

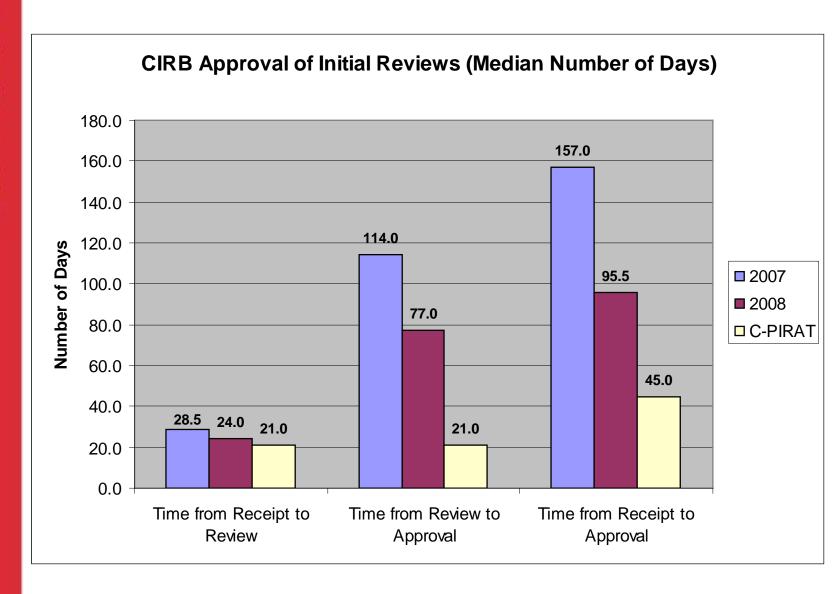
- Mutually agreed upon timelines by Group, CIRB, and CTEP
- Revamped internal CTEP & CIRB processes
- Adult CIRB has own Informed Consent Document (it may differ from Model ICD per NCI and Group SOPs)
- Improved communication
  - Group, PIs, CTEP (CIB), and CIRB address any outstanding questions at time of CIRB Initial Review Board Meeting / teleconference
  - CTEP review of CIRB Outcome Letters with PRN teleconference(s) to resolve any outstanding issues

# Revised Procedures Include Multiple Changes in Addition to Parallel Review

- Goal Minimize CIRB stipulations by resolving issues in real time
- Protocol 'Consultants'
  - Groups: Study PI, Study Statistician, others
  - CTEP: CIB Physician, BRB Statistician

Of Note: The last 7 CIRB Study Outcome Letters have been limited to Informed Consent Issues not requiring an amendment; CIRB had no protocol stipulations

## Sample Metrics: Timeline Comparison



## **Timeline Comparison**

### <u>2007</u>

- 16 Initial Reviews Completed
- Time to approval
  - Range 93 to 447
  - Median 157

### • <u>2008</u>

- 12 Initial Reviews Completed
- Time to approval
  - Range 51 to 264 days
  - Median 95.5 days

### C-PIRAT (initiated 5/1/9)

- 9 Initial Reviews Completed as of 11-24-09 (1 in queue)
- Time to approval
  - Range 31 to 55 days
  - Median 45 days

## CIRB Approval vs. Study Activation

Of the first 9 trials reviewed through C-PIRAT:

 6 had CIRB approval prior to Group Activation

- 3 had CIRB approval post-Group Activation
  - CIRB approval was within 17 to 37 days of Group Activation

## **AAHRPP Accreditation**

- Association for the Accreditation of Human Research Protection Programs (AAHRPP) accreditation the gold standard for IRBs
  - CIRB Evaluation Advisory Panel recommended CIRB become accredited to establish quality benchmark
  - Accreditation is an asset for recruitment
- Process has begun
  - Paid fee
  - Met several times with AAHRPP leadership
- EMMES .50 FTE devoted to effort
- Timeline estimate completion 1 year

## **AAHRPP Accreditation Steps**

#### Conduct Self-Assessment

 Evaluate Human Research Protection Program and make improvements; this often takes 9-12 months; AAHRPP wants to work with us during this phase rather than wait until the application submission

### Prepare and submit application

 a short application form, a program overview (10 page maximum), copies of documents used by the CIRB, and an index to those documents

#### AAHRP site visit

- A team of experts reviews submitted materials and schedules an on-site visit
- During the visit, the team evaluates the CIRB program's performance with respect to the AAHRPP accreditation standards

## AAHRPP Accreditation Steps

- AAHRPP's Council on Accreditation Review and Notification
  - Council reviews the application, the Draft Site Visit Report and the NCI's response, and determines accreditation status.
  - Notification of accreditation status
  - AHRPP has accredited 194 organizations so far
- Re-Accreditation
  - Every three years

## CIRB Cost-Benefit Analysis: Background

- In 2006, NCI funded a study to assess time, effort and cost associated with the Central IRB
- PI was Todd Wagner, health economist with Palo Alto VA and Stanford University
- Focused on adult CIRB since pediatric Board was new and there were a small number of affiliated sites

# Objectives of Cost-Benefit Analysis

- 1) To determine whether participation in the CIRB was associated with lower effort, time and cost compared to not participating in the CIRB
- 2) To assess whether the CIRB was saving society (taxpayers) money

## Methods for Objective 1: Cost-Benefit Analysis

- Surveyed researchers and IRB staff at affiliated and non-affiliated sites to understand effort and time
  - Asked about most recently approved adult oncology trial
  - Caveat: self-reported data
- Hours of effort were translated into costs using national average wages, education and position
- Response rate:
  - 60% response rate (300/498) research staff
  - 42% response rate (50/120) IRBs

## Results for Objective 1

For initial reviews, CIRB affiliation was associated with:

#### Research Staff

- 6.1 hours research staff effort saved
- 34 days faster from the date the research staff started the paperwork until IRB approval
- More predictable initial review times (fewer very lengthy reviews)

#### IRB staff

- 2.3 hours less effort for IRB staff (p=0.10)
- Use of less expensive staff to review CIRB protocols (p=0.01)

## Results Objective 1: Cost-Benefit Analysis

- Use of CIRB was associated with a savings of \$717 per initial review
  - \$321 related to research staff savings (p=0.04)
  - \$396 associated with IRB staff savings (p=0.014)

 No significant differences for continuing reviews or amendments

## Methods Objective 2: Cost-Benefit Analysis

- Investigated whether the adult CIRB saved money in from "societal" perspective
- Are the average monthly costs of running the CIRB less than the average savings (Avg savings per protocol x # Protocols per month)?
  - Estimated monthly CIRB costs came from personnel data provided by contractor 1/07-06/08
  - Saving per protocol came from Objective 1
  - Protocols per month came from CTSU data from 3/06-5/08

# Results Objective 2: Cost-Benefit Analysis

- CIRB cost approximately \$160,000 per month to operate in 2008
- There were approximately 148 initial reviews in CIRB sites per month, for a monthly savings of \$106,175 (148 \* \$717)
- CIRB yielded a societal cost of approximately \$55,000 per month in 2008

# Results Objective 2: Cost-Benefit Analysis

- Saving society money is not a conventional goal for health interventions
- Savings would be higher if
  - More sites joined the CIRB
  - Enrolled institutions used the CIRB as intended
- Calculations do not include:
  - Benefit of faster, more predictable reviews
  - Savings of \$10 per AE

## Conclusion: Cost-Benefit Analysis

- CIRB appears to save local researchers and IRB staff time and effort
- Increasing enrollment would likely lead to increased savings for society
- This evaluation considers the existing system; enhancing efficiency may be possible

# CIRB Update

**Questions and Discussion**