

Proposed Evaluation Plan for Assessing  
Implementation of the Clinical Trials Working  
Group (CTWG) Recommendations

CTWG Evaluation Working Group  
Interim Report

Clinical Trials and Translational Research  
Advisory Committee

March 3, 2011

# Interim Report Context

- Goal of overall CTWG evaluation
  - Assess performance and impact of implemented CTWG initiatives on the effectiveness of the overall NCI clinical trials enterprise
- Goals of the CTWG Evaluation Working Group
  - Refine the proposed evaluation plan
  - Establish a timeline for implementation
- Goals of today's discussion
  - Present interim findings of the Working Group
  - Obtain CTAC guidance to inform the final plan

# CTWG Evaluation Process

- Completed baseline study October 2008
  - Determined feasibility of data collection
  - Reported on certain measures of the state of system (data from 2005-2006)
  - <http://transformingtrials.cancer.gov/initiatives/ctwg/evaluation>
- Baseline study included measures and methodologies for a proposed future evaluation plan
- CCCT constituted the CTWG Evaluation Working Group under CTAC to advise on the proposed evaluation plan

## Working Group Process to Date

- Orientation teleconferences (November-early December)
- Face-to-face meetings to refine the proposed measures and methodologies (mid December)
- NCI stakeholders reviewed results of Working Group meetings and further refined the measures and methodologies (December 22)
- Co-Chairs reviewed and refined revised Evaluation Plan (January)
- Teleconferences with Working Group members to review and refine revised Plan approved by the Co-Chairs (late January and early February)

# Working Group Membership

## Extramural Members

- Peter Adamson (Co-chair)
- Dan Sargent (Co-chair)
- Deb Bruner
- Deborah Collyar
- Arlene Forastiere
- Steve Grubbs
- David Parkinson
- Joel Tepper
- George Weiner
- George Wilding

## NCI Members

- Jeff Abrams
- Debbie Jaffe
- Lori Minasian
- Meg Mooney
- James Zwiebel

## Facilitators

- CCCT: Sheila Prindiville/  
Elizabeth Dean
- STPI: Judy Hautala/Brian  
Zuckerman/Rachel Parker

# Evaluation Plan Overview

- Four primary evaluation components
  1. System Outcomes
    - 1A. Trial quality
    - 1B. Scientific importance and clinical relevance of trial results
    - 1C. Efficiency of trial initiation and conduct
  2. Collaboration
  3. Disease Steering Committees
  4. Investigational Drug Steering Committee
- Limited to trials under purview of the Scientific Steering Committees and contained in current CTEP/DCP databases

# 1A. System Outcomes: Trial Quality

## Quantitative Measures

- Percentage of trials that complete accrual
  - New definitions of 'complete' may be needed for Phase I/II adaptive designs
- For trials that do **not** complete accrual, collect data on reasons; examples include:
  - Sufficiently positive results at an interim analysis
  - Stopped for safety concerns
  - Subjects accrue to competing trials
  - Patients did not complete study
  - Sponsor withdraws from trial
  - Loss of drug supply
  - Study not feasible/too complex
  - Study loses relevance because of scientific advances
- Percentage of trials that definitively answer primary question (either positively or negatively)

# 1A. System Outcomes: Trial Quality Quantitative Measures (cont.)

- Percentage of trials whose results are published in peer-reviewed journals
  - Impact factor of journals
  - Time lag for publication
- Linkage between early-stage and Phase III trials
  - For Cooperative Group Phase III trials, determined from protocol background section
  - For industry Phase III trials, solicit information from study chair (identified in [clinicaltrials.gov](http://clinicaltrials.gov))



## 1B. System Outcomes: Scientific Importance & Clinical Relevance - Qualitative Analysis

- Qualitative interpretation and expert judgment required
- Potential Measures
  - Do trial results provide a definitive answer (yes or no) to the primary question as opposed to being inconclusive
  - Were results novel when trial completed or superseded by other results
  - Are trial results sufficiently meaningful to warrant practice changes (e.g., two-week extension of survival likely not meaningful)
  - Did results, even if scientifically important, result in real-world practice changes
  - Did trial meet important secondary aims ('important' defined as 'if met, would warrant stand alone publication')

## 1B. System Outcomes: Scientific Importance & Clinical Relevance - Qualitative Analysis

- Convene initial expert group
  - Develop refined set of measures
  - Establish preliminary criteria for judging the selected measures
- Pilot the proposed measures and criteria on all Phase III trials completed in a recent year (e.g., 2009 or 2010)
  - Determine feasibility of approach
  - Refine measures and criteria
- Annual evaluation of trials completed in past year
- Periodic review of whether trial results impacted real-world practice

## 1B. System Outcomes: Clinical Relevance Quantitative Measures

- Percentage of NCI-funded trials that support NDA/sNDA submission and FDA approval (both initial and for new uses)
- Percentage of NDA/sNDA submissions and FDA approvals that are supported by one or more NCI-funded trials
- Percentage of NCI-funded clinical trials that lead to CMS decision to reimburse for the intervention
- Need to develop measures for interventions that do not require FDA approval or a CMS coverage determination

## 1C. System Outcomes: Efficiency of Trial Initiation & Conduct - Quantitative Measures

- Efficiency of trial initiation
  - Time from LOI receipt to trial opened for accrual (CTEP early drug development trials)
  - Time from concept submission to Steering Committee to trial opened for accrual (CTEP late-phase and DCP symptom management trials)
- Efficiency of trial conduct
  - Percentage of trials meeting originally projected accrual
  - Percentage of trials with substantive amendments (exclusive of those resulting from new drug safety information)
  - Average number of substantive amendments per trial not resulting from new safety information

## 2. Collaboration: NCI Program Guideline Analysis

- Identify types of collaboration defined within the Cooperative Group, SPORE, and Cancer Center guidelines
- For each type of collaboration identify incentives and disincentives such as:
  - Whether there are scored review criteria associated with collaboration
  - Whether funds from the base award can be used to conduct collaborative activities
  - Whether supplemental funds are available for collaboration

## 2. Collaboration: Quantitative Measures

- Percentage of CTEP funded Phase II clinical trials (and patients on trials) that involve collaboration in accrual across multiple institutions
- Percentage of Phase III clinical trials (and patients on trials) that involve collaboration in accrual across multiple Cooperative Groups
- Extent of industry collaboration
  - Number of investigational agents provided to CTEP (total, number of new agents added/year)
  - Number of companies collaborating with CTEP (total, net number of new companies added/year)

### 3. Disease Steering Committees: Evaluation Methodology

- Quantitative and qualitative approaches
- Evaluation on an individual Steering Committee level
- System Outcome measures stratified by Steering Committee
- Database analyses of timeline performance in approving concepts
- Qualitative analysis via stakeholder interviews
  - Steering Committee members (including Group disease committee chairs)
  - NCI staff
  - Group leadership
  - Investigators who submitted concepts
  - Other extramural trialists

### 3. Disease Steering Committees: Evaluation Topics & Sample Measures

- **Timeline Performance**
  - Time from initial concept receipt to final decision
  - Time from initial concept receipt to trial opened for accrual
- **Prioritization**
  - Transparency, fairness, quality, and efficiency
- **Concept Development**
  - Role of Task Force/Steering Committee deliberations
- **Portfolio Management**
  - Role of Steering Committee in providing strategic guidance for future trials in disease area
- **Collaboration**
  - Collaboration among Steering Committees and with IDSC



## 4. Investigational Drug Steering Committee Evaluation Methodology

- Predominantly qualitative approaches
- Expert panel review of IDSC impact
- Database analyses of timeline performance in approving concepts
- Qualitative analysis via stakeholder interviews
  - IDSC members
  - Investigators who submitted LOIs
  - NCI staff
  - Industry
  - Steering Committee members
- Bibliometrics and document review

## 4. Investigational Drug Steering Committee Evaluation Topics

- Clinical Development Plan (CDP) quality pre- and post-IDSC review (expert panel and stakeholder interviews)
- Process for developing CDPs (stakeholder interviews)
- Quality/balance of CTEP early drug development trial portfolio (expert panel)
- Transparency and quality of early drug development trial prioritization (stakeholder interviews)
- Collaboration in accrual to CTEP EDD trials (database analyses)
- Collaboration among IDSC members (stakeholder interviews)
- Impact of IDSC Reports/Guidelines (database/document analyses and stakeholder interviews)

## Discussion Questions for CTAC

- Should the evaluation be a high priority for initiation in 2011?
- Are the proposed areas of evaluation (System Outcomes, Collaboration, Steering Committees, IDSC) on target?
- Are there alternatives to expert judgment for assessing the scientific importance and clinical relevance of trial results?
- Are there alternatives to stakeholder interviews for addressing Steering Committee and IDSC performance?
- Is the extent of qualitative measures appropriate to achieve the goals of the evaluation?
- Should CTAC form a standing subcommittee to monitor the evaluation process?

## Next Steps

- Incorporate CTAC guidance from today into the final Evaluation Plan
- Working Group to prioritize proposed data elements for addition to current databases
- NCI to determine feasibility of incorporating the proposed data elements into current databases
- Final report presented at July 2011 CTAC meeting
- Proceed with Evaluation Plan implementation according to timeline in Final Report