Operational Efficiency Working Group Final Report

"Compressing the Timeline for Cancer Clinical Trial Activation"

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> Bethesda, MD March 10, 2010

Operational Efficiency Working Group (OEWG)

 Clinical Trials and Translational Research Advisory Committee (CTAC) Charge:

Establish an Operational Efficiency Working Group (OEWG) to recommend strategies and implementation plans for reducing the time for activation of Cooperative Group and Cancer Center trials

• Composition: 63 clinical trial stakeholders: All 10 Cooperative Group Chairs, 8 Cancer Center Directors, Statisticians, Community Oncologists, FDA, CMS, Protocol Specialists, and NCI Clinical Trials Leadership

Trial Categories Addressed by OEWG

- Cooperative Group Phase III Trials
- Cancer Center Investigator Initiated Trials
- IDB Early Drug Development Phase II Trials
 - N01 Contract Holders
 - Cooperative Groups
- Cancer Center Activation of Cooperative Group Trials

<u>NOT</u>: Industry-sponsored trials; OHRP-related issues, CMS coverage

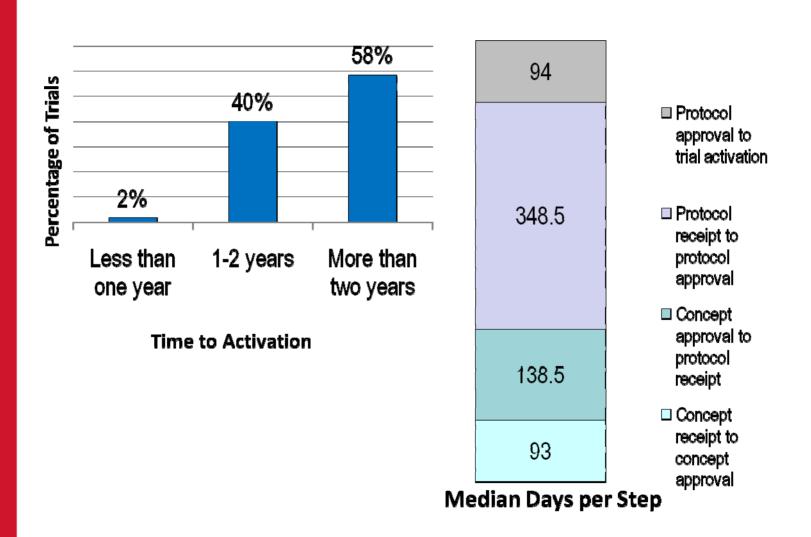
OEWG Accomplishments

- Developed commitment to new target timelines for steps in trial activation
- Developed new process maps for trial activation
- Developed recommendations and associated implementation plans to achieve target timelines
- Established firm dates to terminate protocol development if all issues are not resolved
- Developed resources to support implementation

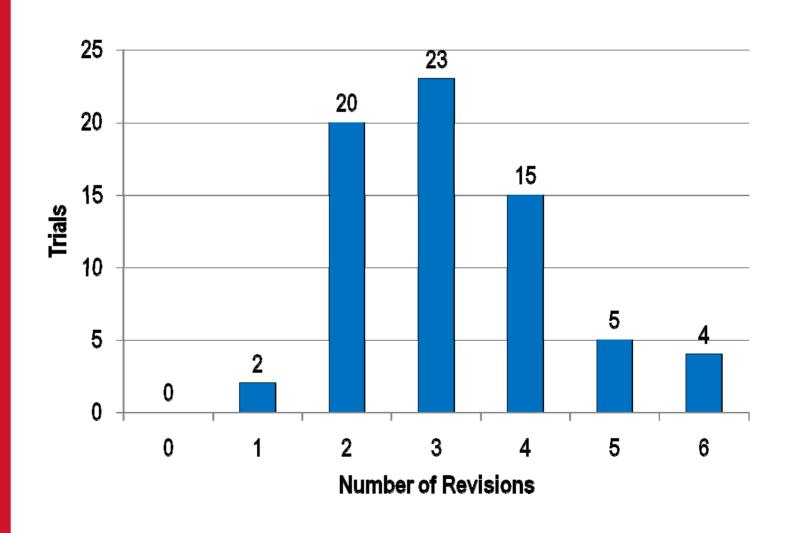
Cooperative Group Phase III Trials

- Current State
- OEWG Target Timeline
- Recommended Process Improvements

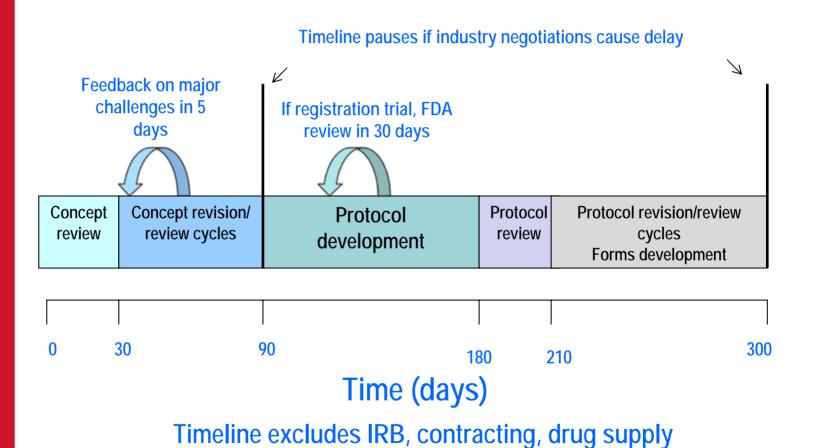
Time to Activation – Current State Cooperative Group Phase III Trials (2006 – 2008)



Review/Revision of Phase III Protocols (2006 – 2008)

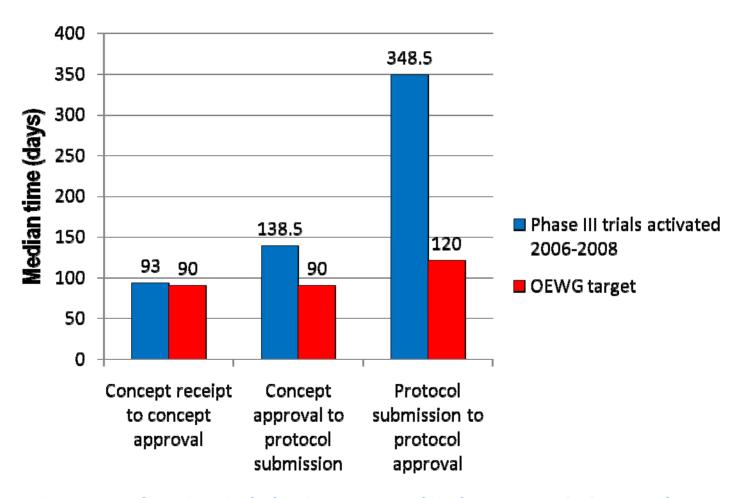


OEWG Target Timeline – 300 days



Protocol terminated if not activated in two years

Time to Trial Activation Current vs OEWG Target



Current median time includes CIRB approval, industry negotiations, and FDA approval

Recommendation 1: Group-specific Action Plan to achieve OEWG target timeline

- Potential staffing changes
 - Physician Senior Protocol Officers
 - Non-physician Trial Development Managers
 - Specialist medical writers
- Trial development steps performed in parallel
- Direct, coordinated interactions to resolve issues
- Project management/protocol tracking tools

Recommendation 2: CTEP Action Plan to achieve OEWG target timeline

- Project Managers
 - Manage overall protocol review, revision and approval process
 - Facilitate interactions between CTEP and the Groups
- Coordinated NCI scientific review to identify all issues at time of initial concept review
- Prompt communication of critical issues in advance of formal written reviews
- Streamlined methods for communicating comments
- Distinguish advisory comments from those requiring response
- Project management/protocol tracking tool

Recommendation 3: Collaborative Group/CTEP process for concept and protocol revision

<u>Implementation Plan</u>

- Direct, coordinated interactions to resolve issues
- High priority given for devoting time to issue resolution
- Fundamental aspects of study design resolved at concept stage
- Interactions at protocol stage focused on mechanics of completing a protocol embodying an agreed concept
 - Prompt communication and resolution of major differences
 - Minimal time spent discussing non-critical differences of opinion
 - Minimization of time and effort for routine or pro forma revisions
- Rapid arbitration for any issues not resolved quickly

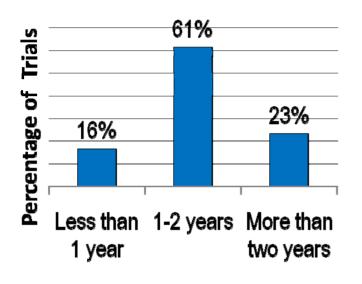
Recommendation 4: Develop approaches to reward performance against timelines

- Establish comprehensive, reliable system for reporting timeline performance for each step in trial activation
- Collect timeline performance data for at least one year and assess accuracy and value of the data and reports
- Analyze performance data by individual Groups and across the Group system compared to target timelines
- Joint Group/NCI deliberations concerning
 - Linking incentives to Group-specific timeline performance
 - Incorporating performance against timeline targets in Subcommittee H review
- CTEP to include timeline performance in its annual staff performance evaluations

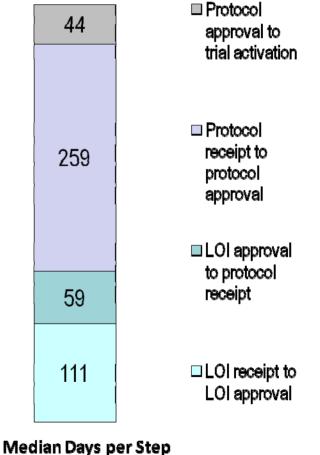
IDB Early Drug Development Phase II Trials

- Current State
- OEWG Target Timeline
- Recommended Process Improvements

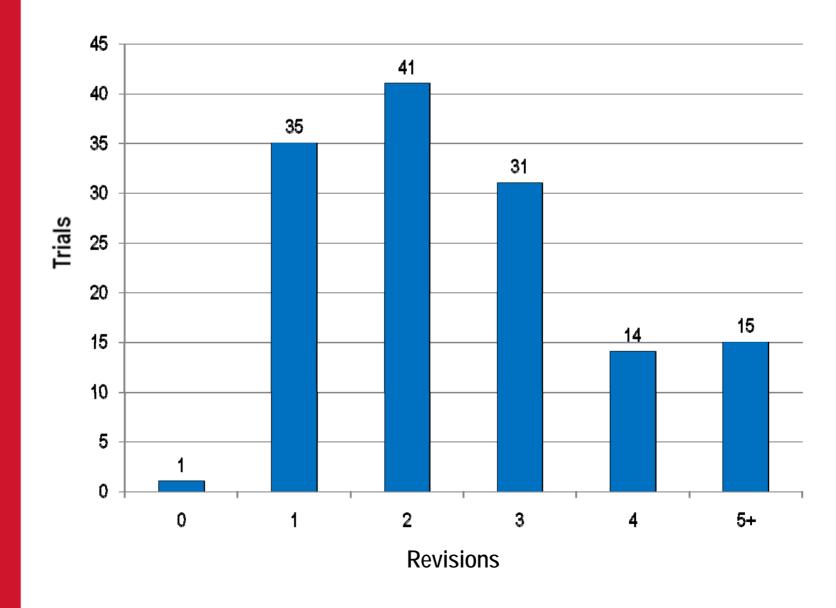
Time to Activation - Current State N01 and Cooperative Groups (2006-2008)



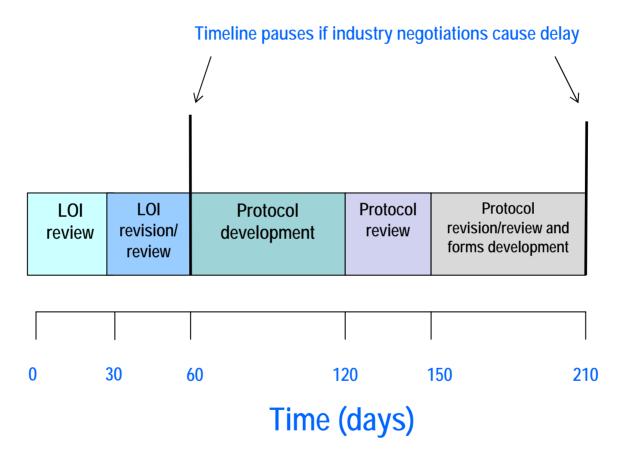
Time to Activation



Review/Revision of Protocols N01 and Cooperative Groups (2006-2008)



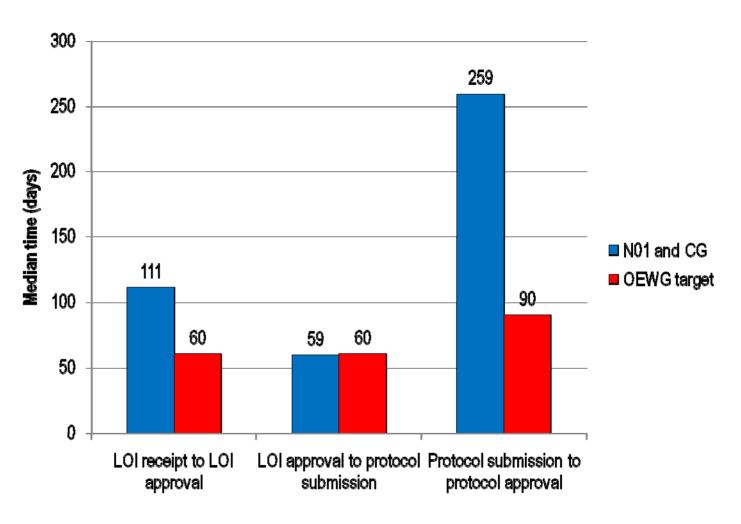
OEWG Target Timeline – 210 days



Timeline excludes contracting, drug supply, IRB, FDA

Protocol terminated if not activated in 18 months

Time to Trial Activation Current vs OEWG Target



Current median time includes IRB approval and industry negotiations

Early Drug Development Phase II Trial Activation Process Improvement

Recommendation 5: CTEP Action Plan to achieve OEWG target timeline

- Project Managers
 - Manage overall protocol review, revision and approval process
 - Facilitate interactions among CTEP, PIs and industry
- Teleconferences to resolve issues for "on hold" LOIs
- Prompt communication of disapprovals in advance of review letter
- Streamlined methods for communicating comments
- Distinguish advisory comments from those requiring response
- Project management/protocol tracking tools

Early Drug Development Phase II Trial Activation Process Improvement

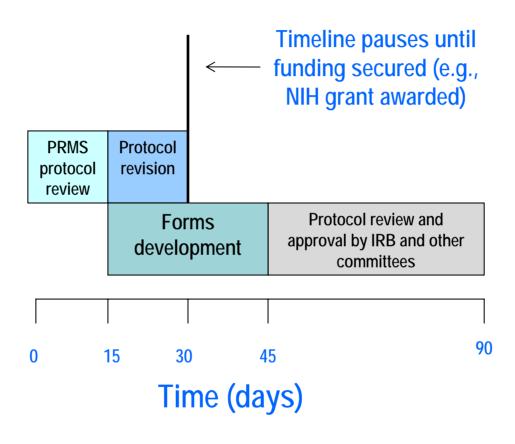
Recommendation 6: Collaborative Group/N01/CTEP process for LOI and protocol revision

- Direct, coordinated interactions to resolve issues (within 14 days of LOI review)
- High priority on devoting time to issue resolution
- Fundamental aspects of study design resolved at LOI stage
- Interactions at protocol stage focused on mechanics of completing a protocol embodying an agreed LOI
 - Prompt communication and resolution of major differences
 - Minimal time spent discussing non-critical differences of opinion
 - Minimization of time and effort for routine or pro forma revisions
- Rapid arbitration for any issues not resolved quickly

Cancer Center Investigator Initiated Trials

- OEWG Target Timeline
- Recommended Process Improvements

OEWG Target Timeline – 90 days



Timeline excludes writing of protocol, contracting, institutional financial review, drug supply

Performance benchmark for trial activation = 180 days

Cancer Center Process Improvement

Recommendation 7: Center-specific Action Plan to achieve OEWG target timeline

- Potential Action Plan Elements
 - Specialist medical writers
 - Direct coordinated interactions to resolve differences
 - Project management /protocol tracking tool
- Center-Specific Timeline Targets
 - OEWG target modified to reflect specific Cancer Center environment
 - Targets analyzed for reasonableness by Cancer Center Directors/NCI
 - Timeline data reported annually against target
 - Centers performing below expectations report annually on actions taken
- Funding Sources
 - Explicitly allow use of CCSG funds for protocol development
 - Provide supplemental funds to implement Action Plan

Cancer Center Process Improvement

Recommendation 8: Streamline university contracting and financial review processes

Implementation Plan

System level

- Educate universities on NCI START (Standard Terms of Agreement for Research Trials) clauses (http://ccct.nci.nih.gov)
- Develop standardized clauses for other types of agreements
- Collaborate with CTSA program to streamline processes

Institution level activities

- Educate stakeholders on NCI START clauses
- Establish master agreements with individual companies
- Consider use of non-federal funds for university legal/contracting staff devoted to Cancer Center trials
- Direct interactions among Center/university/hospital staff to resolve issues

Process Improvements Applicable across Trial Categories

Standardization of Tools and Templates

Enhanced Biomarker Funding and Capabilities

Cancer Center Trial Prioritization

Standardization of Tools and Templates

Goal: Facilitate rapid assembly of protocols

Recommendation 9: Form working group involving NCI, Group and Center staff to coordinate standardization efforts

- Compile inventory of protocol templates, data elements, case report form modules, etc. from Groups, Centers and NCI
- Analyze inventory to identify current standards, best-in-class products, redundant development efforts and unmet needs
- Analyze status and output of existing standardization efforts
- Identify tools and templates where standardization is mandatory and those where recommended or optional
- Identify needed standards for interoperability
- Develop a coordinated process for implementing standards

Enhanced Biomarker Funding/Capabilities

Goal: Facilitate rapid activation of trials involving critical biomarker studies

Recommendation 10: Enhance funding and capabilities for use of biomarkers in NCI-funded clinical trials

<u>Implementation Plan</u>

- Expand the Biomarker, Imaging and Quality of Life Studies Funding Program (BIQSFP) to large randomized Phase II trials: <u>Done</u>
- Support biomarker studies for early-phase trials
- Require clinical trial concepts/LOIs to describe proposed integral or integrated biomarker studies
- Provide funding for development, validation, and conduct of clinical grade assays: <u>Underway</u>
- Develop standards for qualifying sites to conduct imaging studies associated with clinical trials: <u>Underway</u>

Cancer Center Trial Prioritization

Goal: Optimize use of resources by reducing the number of protocols in development

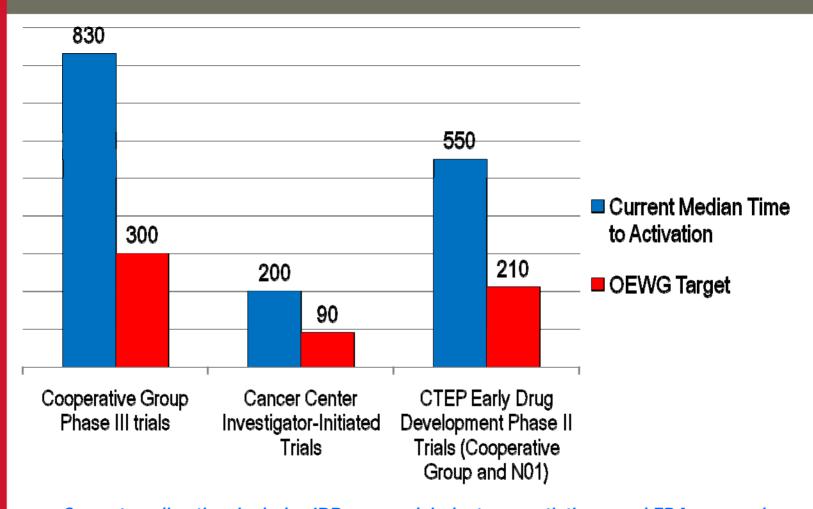
Recommendation 11: Perform rigorous review of clinical trial concepts in advance of protocol development

- Concept review process specified in CCSG guidelines
 - Approval/disapproval by disease group or Center-wide
 - Uniformity of reviews across diseases
 - Content of a concept document
 - Criteria by which concepts are reviewed
- NCI should not mandate the specific process or criteria
- Applicable to all trials investigator initiated, Cooperative Group and N01

Process Improvements to Enhance Overall Clinical Trials Program

- Enhance Cancer Center Participation in Cooperative Group Trials
 - Cooperative Group leadership and accrual part of CCSG review criteria
 - NCI officially recognizes investigators for leadership in the design and conduct of Cooperative Group trials
 - Enhance the stability and size of accrual funding
 - Create incentives for institutions to include Cooperative Group accrual as a "service" criterion for tenure and promotion
- Cancer Center Clinical Trials Strategic Review
 - Requirement for Comprehensive Cancer Centers
 - Allocate clinical trial resources based on scientific/clinical advances, basic/translational/clinical research strengths and patient population
- Enhance Clinical Research Mentorship and Training
 - Flexibility in use of CCSG funds for mentorship and training
 - Clinical research training required for Comprehensive Cancer Centers
 - Create new training awards, programs and tools

Targets Aggressive But Necessary



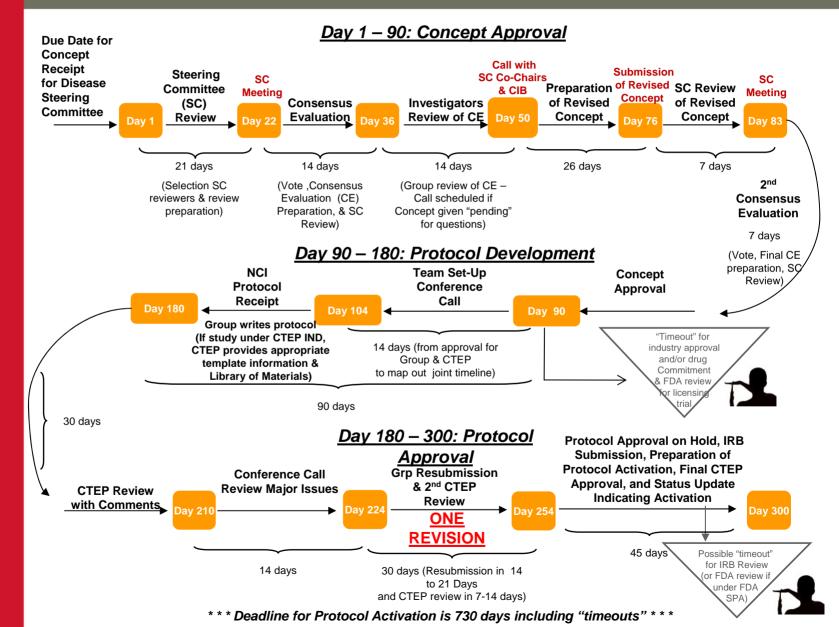
Current median time includes IRB approval, industry negotiations, and FDA approval

Commitment will result in significant progress but success will not be fully achieved without incremental funding

OEWG Recommendations: Implementation

- Develop Cooperative Group and Cancer Center
 Action Plans
 - Administrative supplements awarded to <u>all ten</u> Cooperative Groups
 - Develop action plans
 - Hire additional staff
 - Acquire and deploy project management tools
 - Administrative supplement requests in review for NCI-designated Cancer Centers: 48 applications
- CTEP action plan to be initiated for new concepts and LOI's April 1, 2010; OEWG implementation kickoff meetings March 23rd for Phase I/II Investigators and March 24th for Coop Groups
 - Revised LOI and protocol processing
 - Revised templates and AE reporting tables
 - Transparent timeline tracking system: "Who has the concept/protocol?"
 - Cancer Center action plans: Working Groups (Phase I/II trials)
 - Coop Group models and action plans

Phase 3 Timeline



OEWG Recommendations: Implementation (2)

- Firm Termination Deadlines Beginning January 2011
 - 24 months for Phase III
 - 18 months for Phase II
- FY 2011 and beyond
 - Routine collection and reporting of timeline performance
 - Incentives for Cooperative Groups, Cancer Centers, CTEP, and DCP to meet the target timelines
 - Long term support for efficiency initiatives
- Vision: Coordinated, interactive processes for timely development, review, revision and approval of all NCI-supported clinical trials

OEWG Next Steps

Launch OEWG Phase II addressing rate of accrual and time to trial completion

Appreciation

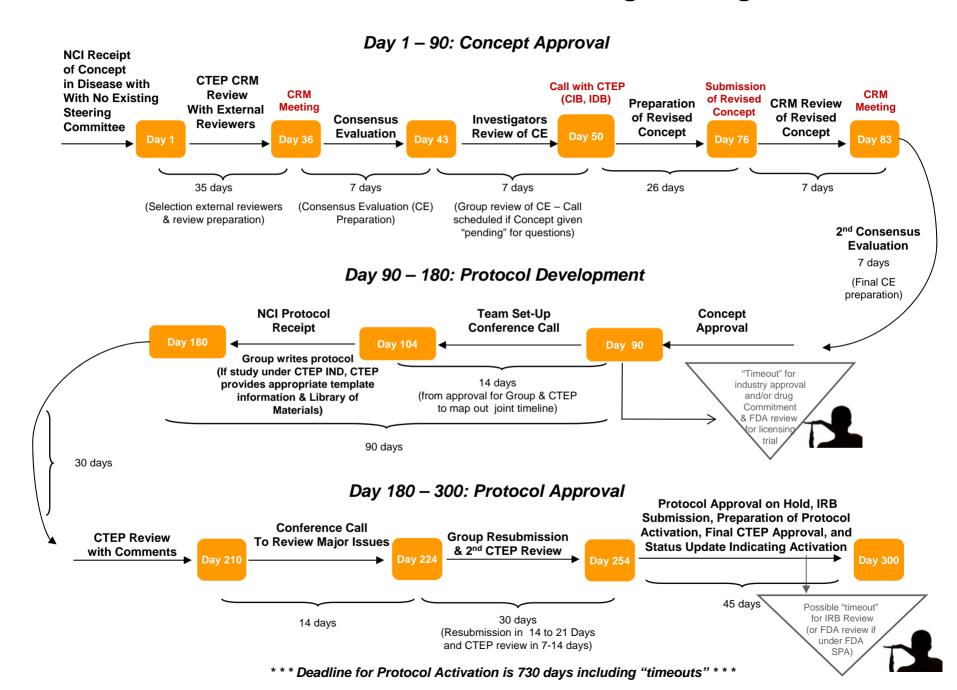
Thanks to:

- OEWG members
- Ray Petryshyn, OEWG Executive Secretary
- NCI professional staff
- Science Technology Policy Institute: Judy Hautala, Oren Grad, Brian Zuckerman

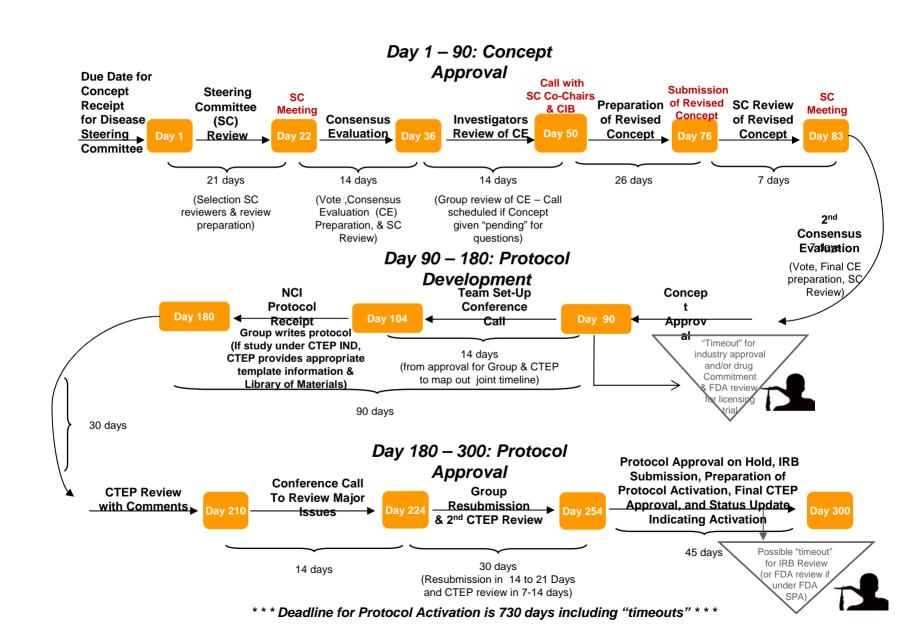
CTAC Requested Action

Motion to accept the recommendations of the Operational Efficiency Working Group report

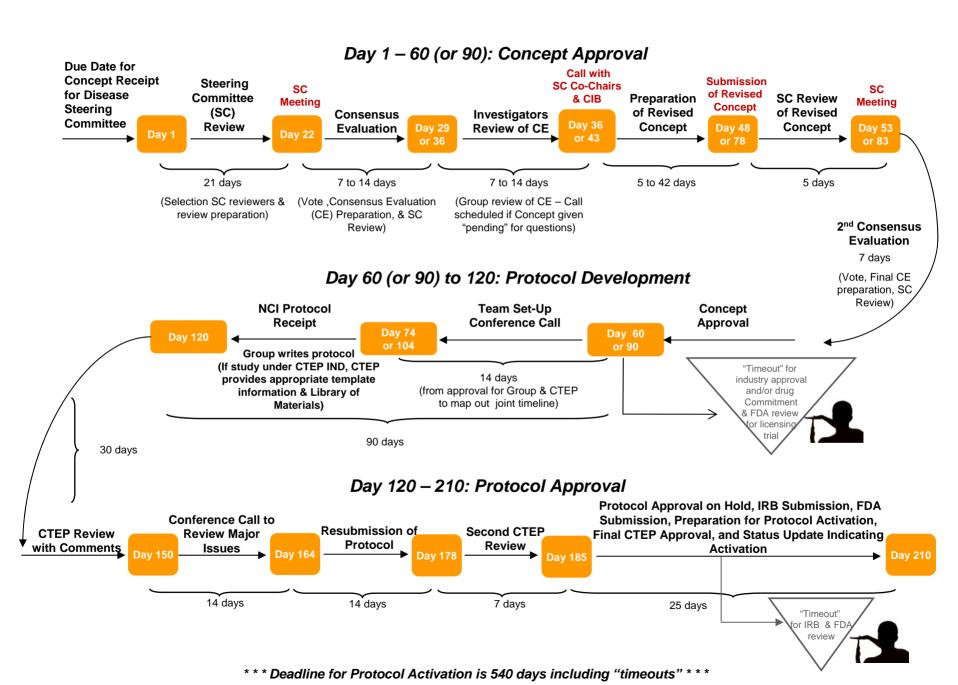
Phase 3 Timeline – Modification if No Existing Steering Committee



Phase 3 Timeline – Steering Committee Evaluation

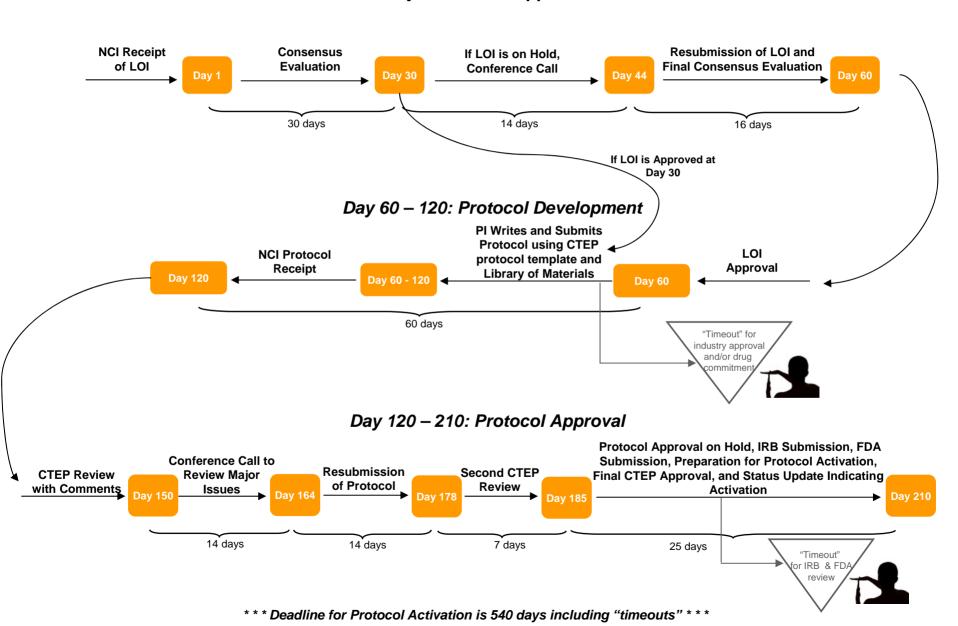


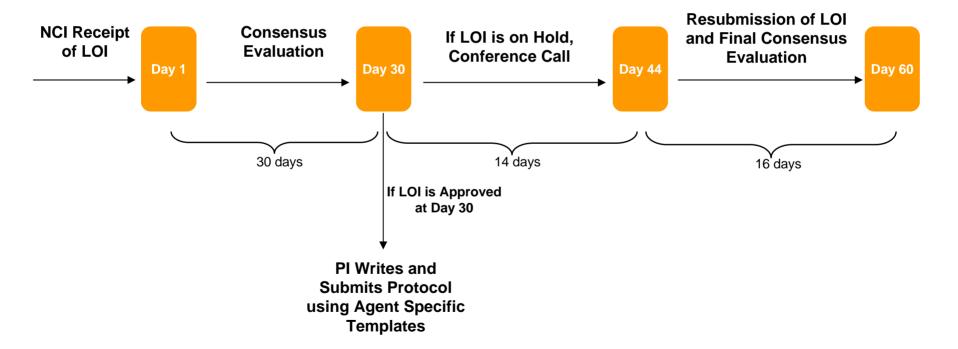
Phase 2 Timeline – Steering Committee Evaluation



Phase 1/2 Timeline: Unsolicited LOI's

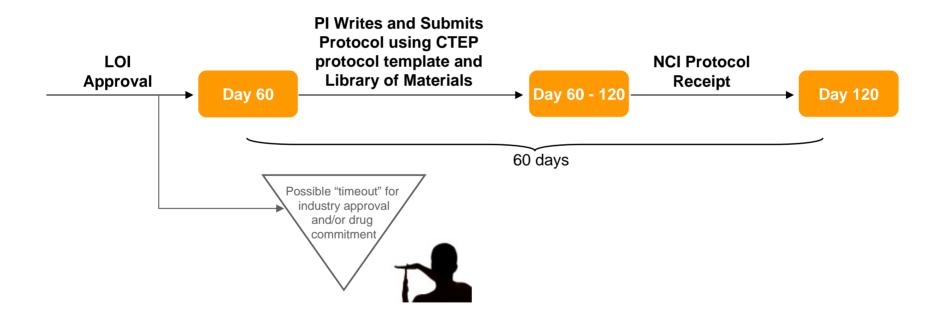
Day 1 - 60: LOI Approval





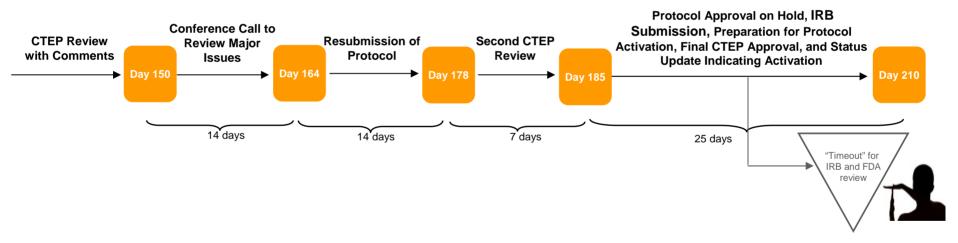
- Timeline begins on the receipt of the LOI by NCI
- If the LOI receives a pending approval, a conference call will be held within two weeks of the consensus review to discuss any issues and/or questions.
- The revised LOI must be submitted within 30 days to complete the revision process and gain approval.
- If the LOI is rejected, the PI has the right to request review of the decision through a rapid arbitration process.
- Once an LOI is approved, it is sent to the industry partner. The timeline is in "timeout" until the industry partner approves the LOI and commits a supply of the investigational agent.

Day 60 – 120: Protocol Development



Day 60 – Day 120: Protocol Development

- Once a LOI has approval, there is a "timeout" for industry review.
 The timeline restarts once industry approves LOI and commits supply of investigational agent.
- The PI should write the protocol using the protocol template and the CTEP library of materials as references.
- Protocols must be submitted to CTEP within 60 days of LOI approval (not including timeout for industry approval of LOI).

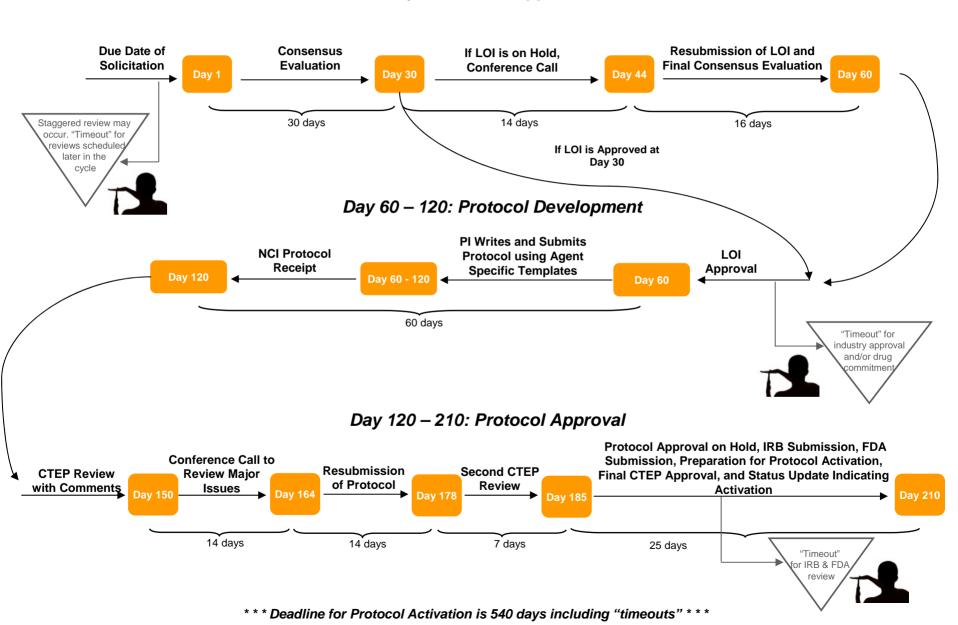


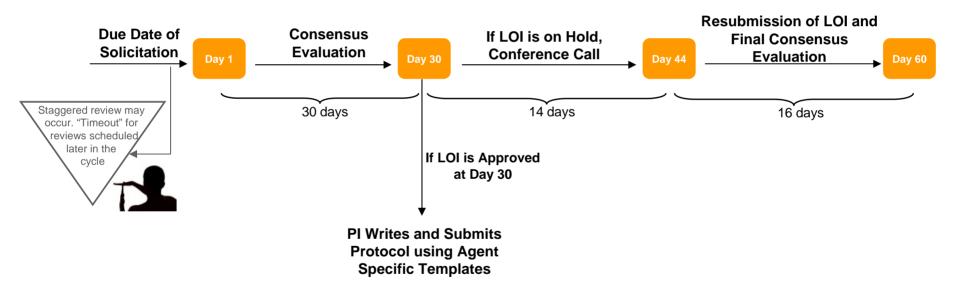
* * * Deadline for Protocol Activation is 540 days including "timeouts" * * *

- Within the first 30 days after protocol receipt, the protocol will be discussed at PRC, the Consensus Review will be compiled and the review sent to the Pl.
- If the status is pending, there will be a conference call held with CTEP and the PI to discuss any critical issues two weeks after the Consensus Review is sent.
- The PI has two weeks to resubmit the protocol, which will then be reviewed by CTEP the following week.
- Once the protocol is given a status of approval on-hold, the PI has 25 days to complete the IRB submission and other activation preparations. A "timeout" will be granted during this period for IRB approval.
- A protocol is activated once the status update of "open to enrollment" is received at CTEP.

Phase 1/2 Timeline: Mass Solicitation

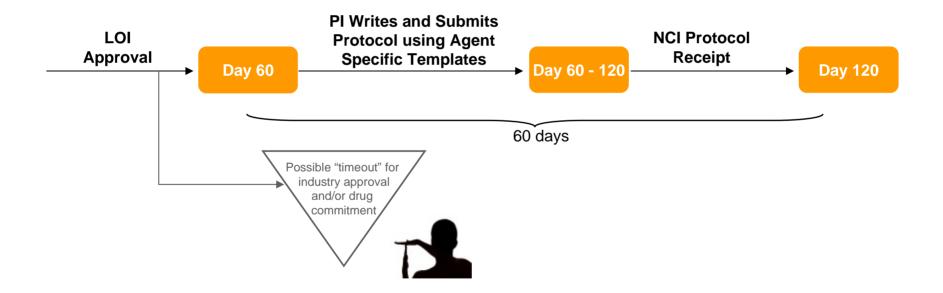
Day 1 - 60: LOI Approval





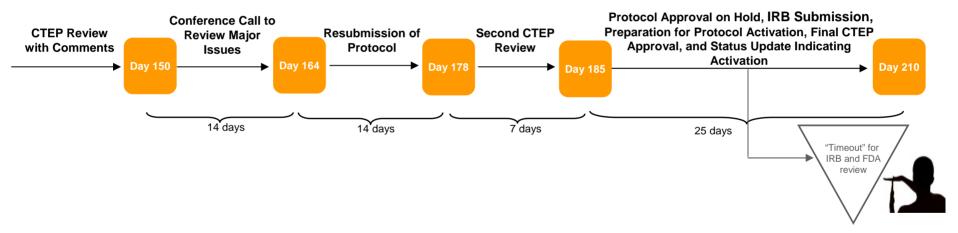
- Timeline begins on the due date of the solicitation.
- If a large number of LOI's are received, a staggered review will occur in groups of 20-30. For LOI's that are scheduled for review later in the cycle, the timeline will be in a scheduled "timeout."
- If the LOI receives a pending approval, a conference call will be held within two weeks of the consensus review to discuss any issues and/or questions.
- The revised LOI must be submitted within 30 days to complete the revision process and gain approval.
- If the LOI is rejected, the PI has the right to request review of the decision through a rapid arbitration process.
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 The timeline restarts once industry approves LOI and commits supply of investigational agent.
- The PI should write the protocol using the agent specific templates provided by CTEP.
- Protocols must be submitted to CTEP within 60 days of LOI approval (not including timeout for industry approval of LOI).



* * * Deadline for Protocol Activation is 540 days including "timeouts" * * *

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