Introduction to the Clinical Trials Transformation Initiative

Pamela Tenaerts, MD, MBA Executive Director CTTI

May 19, 2016



Agenda

- > Welcome and Introduction to the Clinical Trials
 Transformation Initiative
 - Pamela Tenaerts, CTTI
- Project Overview
 - Jonca Bull, FDA
- Project Recommendations and Tools
 - Beth Mahon, Janssen R&D
- Discussion



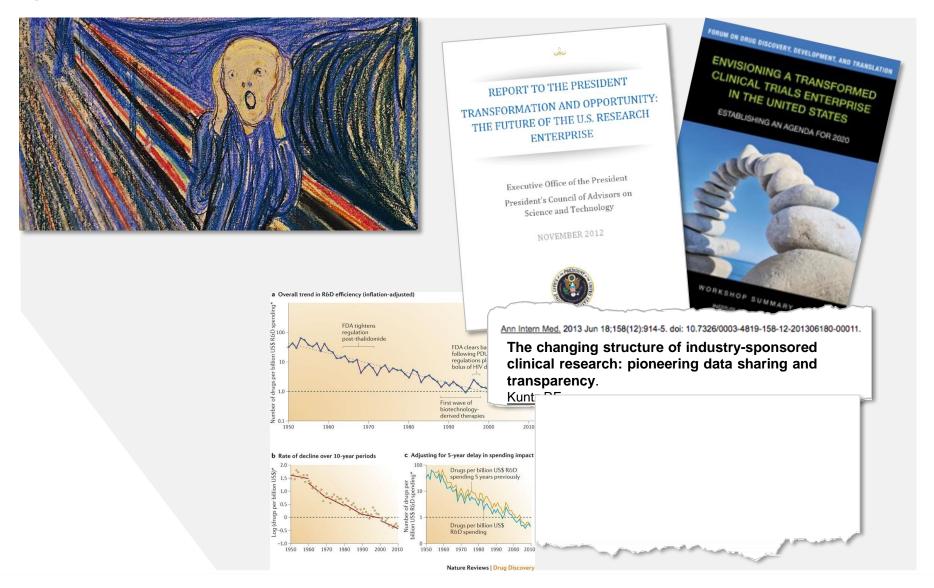


Disclaimer

The views and opinions expressed in this presentation are those of the individual presenters and do not necessarily reflect the views of the Clinical Trials Transformation Initiative.

One of the presenters is an employee of Duke University. Salary support comes from pooled membership fees of the Clinical Trials Transformation Initiative and from an FDA Cooperative Agreement.

Clinical trials in crisis



Addressing This Need





To identify and drive adoption of practices that will increase the quality and efficiency of clinical trials

> Public-Private Partnership Co-Founded by FDA and Duke involving all stakeholders 70+ members

CTTI Strategic Plan

MISSION STATEMENT

To develop and drive adoption of practices that will increase the quality and efficiency of clinical trials



GOALS

Create recs & tools

Make data publicly available

Communicate broadly

Demonstrate impact

Characterize clinical trial landscape



AREAS OF STRATEGIC FOCUS

CTTI'S UNIQUE APPROACH



Collaboration Towards Solutions



CTTI Membership











THE MEDICINES COMPANY









Medtronic



MERCK































SCT

AdvaMed





Bio





BRANY













Arthritis

Foundation





(SCRS

























































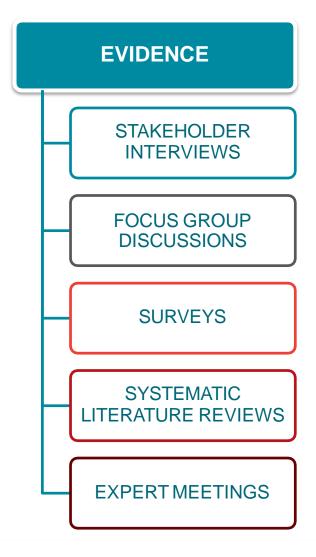


Methodology



Evidence guides the journey to solutions

- We use quantitative & qualitative research methods, selecting those best aligned with each project's objectives, to:
 - Identify/describe "what is going on" to gain a better understanding of a particular phenomenon
 - Move beyond individual views to a more complete and objective understanding of the disincentives and motivators for change
- ▶ Equipped with data, we then challenge assumptions, identify roadblocks, build tools and develop recommendations to change the way people think about and conduct clinical trials.



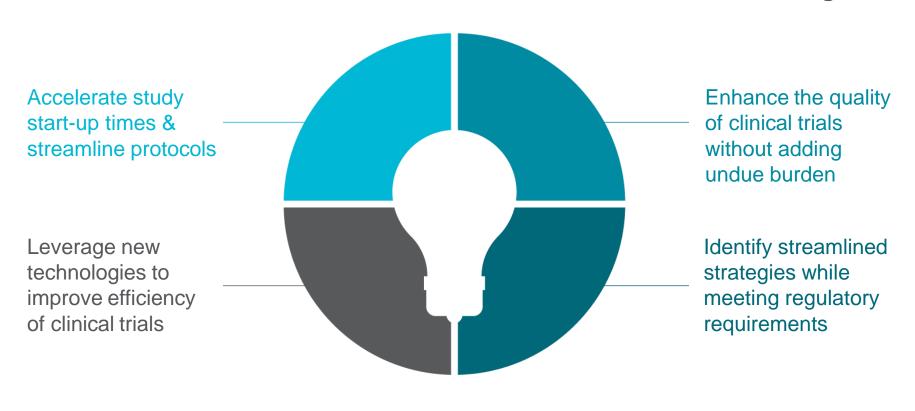
How CTTI Works

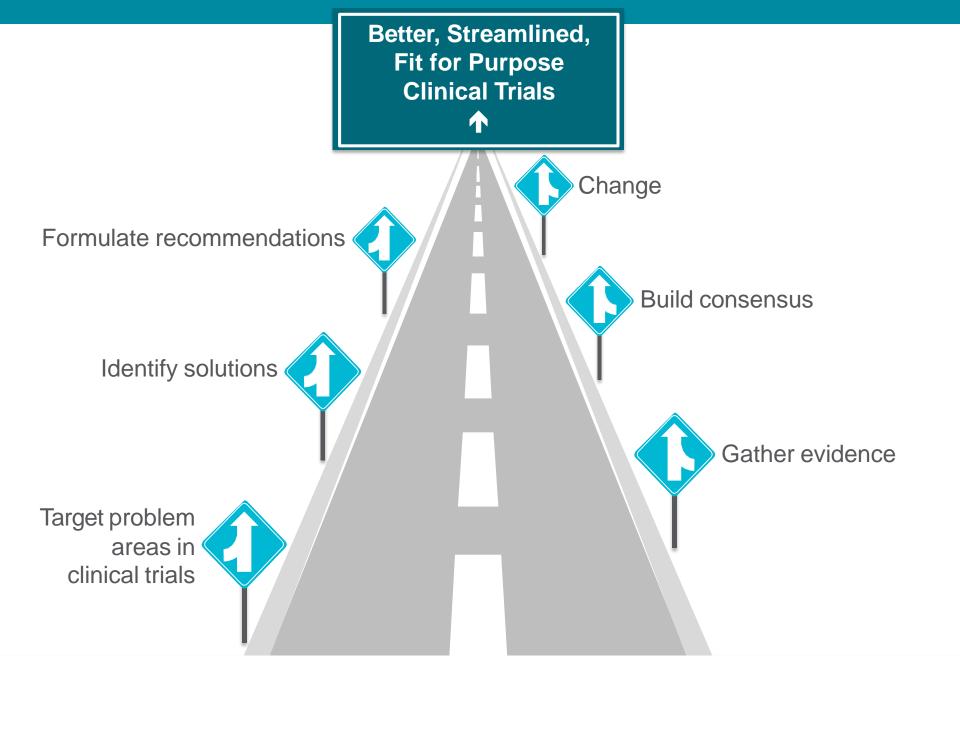
- > Engage & value all stakeholders equally
- Understand incentives to maintain non-value added activities and have solutions that are mindful of those incentives
- Plant the seeds for change throughout all phases of a project
- Develop actionable, evidence-based, consensus driven recommendations
- Create and share knowledge, tools & resources to facilitate change that improves clinical trials



CTTI Recommendations

> CTTI projects focus on streamlining and accelerating clinical trials, while ensuring the highest standards of quality and human subjects protection. We provide actionable, evidence-based, consensus-driven recommendations designed to:





Portfolio of CTTI Projects

Investigational plan	Study start up	Study conduct	Analysis and dissemination	Specialty areas
Large simple trialsUses of electronic data	Central IRBSite metrics			
	planLarge simple trialsUses of	 Large simple trials Uses of Study start up Central IRB Site metrics 	 Large simple trials Uses of Study start up Study conduct Central IRB Site metrics 	 Plan Study start up Study conduct dissemination Large simple trials Site metrics Uses of

Recruitment Project Team Members

Team Leaders

- Jonca Bull (FDA)
- Elizabeth Mahon (Johnson & Johnson)
- Patricia Furlong (Parent Project Muscular Dystrophy)

CTTI Staff

- Jamie Roberts
- Diane Willis
- Kimberley Smith

Team Members

- David Ciavarella (CR Bard)
- Beth Harper (Clinical Performance Partners)
- Grant Huang (VA)
- Leslie Kelly (Duke)
- Jim Kremidas (ACRP)
- Barbara LeStage (Patient Advocate)
- Claire Meunier (Michael J. Fox Foundation)
- Holly Massett (NIH)
- Kelly McKee (Lilly)
- Ashish Oza (St. Jude Medical)
- Anuja Rastogi (FDA)



Recommendations for Recruitment: Moving Recruitment Planning Upstream To Reduce Barriers to Participation

CTTI Recruitment Project Team
Jonca Bull, Food and Drug Administration
Beth Mahon, Janssen R&D

May 19, 2016



Framing the Issue: Lackluster Recruitment to Clinical Trials

Jonca Bull, MD

Director, Office of Minority Health, Food and Drug Administration

May 19, 2016



Critical Issues in Recruitment to CTs

LACKLUSTER RECRUITMENT

A staggering number of clinical trials fail to meet recruitment goals, leading to delays, early trial termination, or inability to draw conclusions at trial completion due to loss of statistical power.

INADEQUATE SOLUTIONS

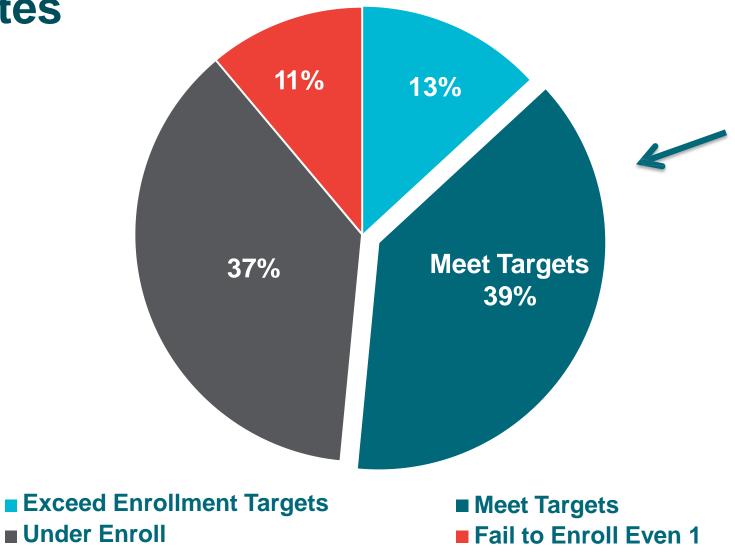
Many explanations have been offered including poor study design, lack of patient engagement, insufficient staff time, inadequate attention to determine and identify available patients who meet eligibility criteria, and inadequate centralized site support.

NEW PARADIGM NEEDED

Solution
CTTI project to identify recruitment challenges and develop actionable recommendations

Clinical Trials Crisis: Low Site Enrollment

Rates



Clinical Trials Crisis: †Trial Complexity =

↑ Burden on All Stakeholders

Phase II and 30% of Phase III protocols collect non-core data that are not associated with a primary or key secondary endpoint, regulatory compliance, or standard baseline assessments.

		Phase II	Phase III
Endpoints	Primary	14.8%	9.4%
	Tertiary	27.8%	29.7%
Procedures	Core	64.9%	58.6%
	Standard	9.7%	7.1%



Project Objective 1

Identify barriers and optimal approaches to patient recruitment

Survey experts representing stakeholders to obtain their perceptions of identified barriers and solutions

Survey experts representing stakeholders to obtain their perceptions of identified barriers and solutions

Project Objective 2

Identify methods to move recruitment planning upstream in the study development process

Identify and catalog current recruitment planning tools

Identify key elements of recruitment plans and tools

Evidence Gathering

LITERATURE REVIEW

(2013)

LANDSCAPE SCAN

(Jan-May 2015)









STAKEHOLDER SURVEY

(2014)

EXPERT MEETING

(Nov 2015)

Literature Review: Takeaways

Limited data regarding how successful or unsuccessful trialists have been in overcoming barriers or how barriers have affected the outcome of trials

Most strategies investigated were supported by only one or two studies

Paucity of literature on retention barriers, strategies and promoters

Survey Results: Key Findings Perceived Barriers to Recruitment

81.1%

Finding patients who meet eligibility criteria

67.4 %

Insufficient staff time for recruitment

65.6 %

Consent forms (e.g., length and complexity)

60.3 %

Protocol requirements (other than recruitment criteria)

Free Text Suggestions of Methods to Increase Clinical Trial Enrollment

Outreach,
Relationships,
Engagement &
Partnerships (11)

Partner with patient advocacy groups

Build relationships

Community outreach & engagement

Plan Appropriately (13)

Make protocols less burdensome

Target trials to patient locations

Recruitment & retention research

Technology & Tactics (17)

Use technology (including registries)

Site-specific recruitment action plans

Advertise & educate

Survey Results: Key Findings & Recurrent Themes

- **Barriers** most often reported as problematic:
 - Eligibility criteria
 - Insufficient staff time for recruitment
 - Protocol requirements (other than I/E criteria)
 - Complexity of consent forms
- Patients offer a valuable perspective to overcoming recruitment barriers.

Stakeholders are not engaged in the process

- Barriers are often designed into protocols (and must later be amended out) at significant cost (opportunity and economic)
- ➤ A comprehensive recruitment strategy, rather than a single tool or solution, will be required to address the range of significant recruitment barriers identified

Illustrative comment from a survey respondent

The key is making sure the trial is worth doing, that it asks an important question and that the endpoints are significant... After that, we can work on all kinds of recruitment strategies."



CLINICAL TRIALS

Home > Barriers to Clinical Trial Recruitment and Possible Solutions: A Stakeholder Survey

Barriers to Clinical Trial Recruitment and Possible Solutions: A Stakeholder Survey

Sep 03, 2015

By Elizabeth Mahon [1], Jamie Roberts [2], Pat Furlong [3], Gina Uhlenbrauck [4], Jonca Bull, MD [5]

Applied Clinical Trials



Survey Findings: Published Online September 3, 2015

Analysis & Discussion

- Industry: variable and siloed approaches to the development of recruitment plans
 - Sponsors are the primary owners of the recruitment problem
 - Hence, efforts should start centrally with study design
 - Tactics to enhance recruitment are often developed too late in the process of a clinical trial
 - Frequently reactive rather than proactive
 - Often to rescue

> Inference:

 Need for a culture shift toward developing a recruitment plan from the earliest stages of clinical trial development

Sounds Great! But.....

What *is* a recruitment plan?

What are the necessary components?

What are the key features?

What **tools** are being used to create them?

Who is creating them?



Landscape Scan

- Gathered recruitment planning tools from wherever we could find them
- Major themes:
 - Recruitment plans are illusive, typically study specific and tactic based
 - Recruitment planning tools are likely abundant but often proprietary
 - No single framework was available for planning recruitment as part of planning a study
- Inference: Need for a systematic framework for thinking about recruitment planning in parallel with trial design & development
 - Planning should touch a number of areas
 - Study question design & protocol development
 - Trial feasibility and site selection
 - Communications

Expert Meeting: Consensus

- Sponsors are the primary owners of the recruitment problem
 - Hence, efforts should start centrally with study design
- Tactics to enhance recruitment are often developed too late in the process of a clinical trial
 - Frequently reactive rather than proactive, often to rescue
- Consensus: We need...
 - A culture shift toward developing a recruitment plan from the earliest stages of clinical trial development
 - A systematic framework for thinking about recruitment planning in parallel with trial design & development
- Planning concerns fall into 3 main areas
 - 1. Study design & development
 - 2. Trial feasibility and site selection
 - 3. Communications

The Recommendations

Beth Mahon, JD

Associate Director, Global Clinical Operations - US

Janssen R&D

May 19, 2016



Trial Design & Development

Identify and engage all stakeholders

Ensure the relevance of the scientific question to stakeholders

Limit protocol complexity to reduce the burden of participation

Develop realistic eligibility criteria

Optimize data collection to only what's necessary to maintain patient safety and answer the scientific question



Trial Feasibility & Site Selection

Conduct an evidence-based trial feasibility analysis

Establish realistic metrics and milestones

Develop an adequate budget and resources

Ensure appropriate site selection

Engage in suitable site performance monitoring



Identify ALL stakeholders and partners

Identify participant locations based on where participants may seek treatment & relevant information

Develop and test tailored messages

Develop creative material and select appropriate channels for delivery

Develop a realistic communication budget

Monitor and evaluate both the recruitment process & performance with meaningful metrics

Embed recruitment intervention studies into clinical trials & share the results to develop best practices



The Tools and Resources

- CTTI website: http://www.ctti-clinicaltrials.org/
- Recommendations, Tools and Figures can be found at https://www.ctti-clinicaltrials.org/our-work/quality/recruitment-2/



Framework for Strategic Recruitment Planning

TRIAL DESIGN & PROTOCOL DEVELOPMENT

Identify & engage all stakeholders

Ensure the relevance of the scientific question

Limit complexity to reduce burden

Have realistic eligibility criteria

Optimize data collection



TRIAL FEASIBILITY & SITE SELECTION

- Conduct evidence-based feasibility analysis
- Have realistic metrics & milestones
- Develop an adequate budget & resources
- Ensure appropriate site selection
- Engage suitable performance monitoring

RECRUITMENT COMMUNICATION PLANNING

- Identify and engage all stakeholders
- Identify where participants seek treatment & relevant information
- Develop & test tailored messages
- Develop creative material & select appropriate delivery channels
- Have a realistic budget
- ▶ Monitor & evaluate process & performance
- ► Embed recruitment intervention studies & share results



CTTI TOOLS FOR EFFICIENT AND EFFECTIVE CLINICAL TRIAL RECRUITMENT PLANNING

TOOL 1. DECISION TREE FOR OPTIMIZING PROTOCOL DESIGN

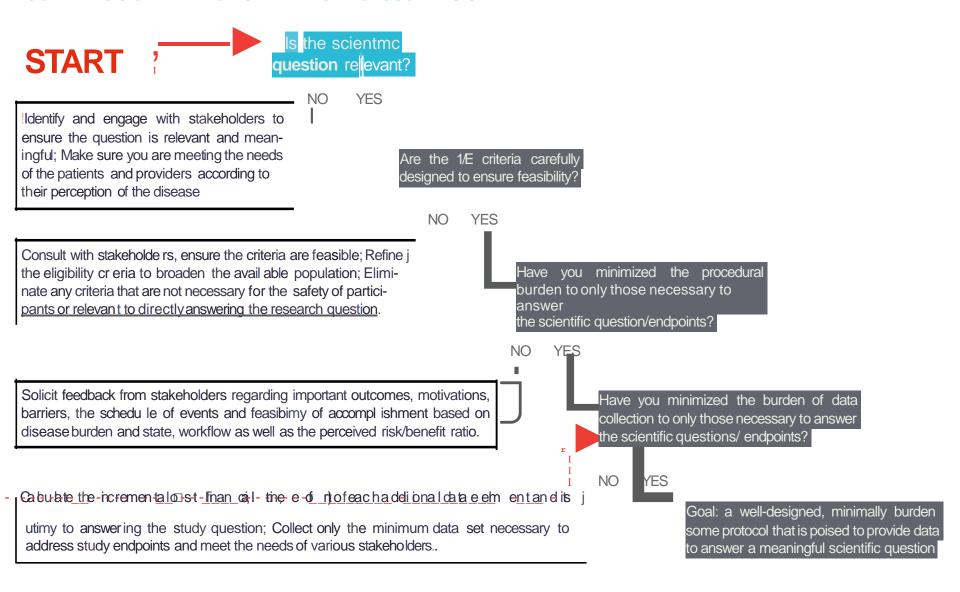
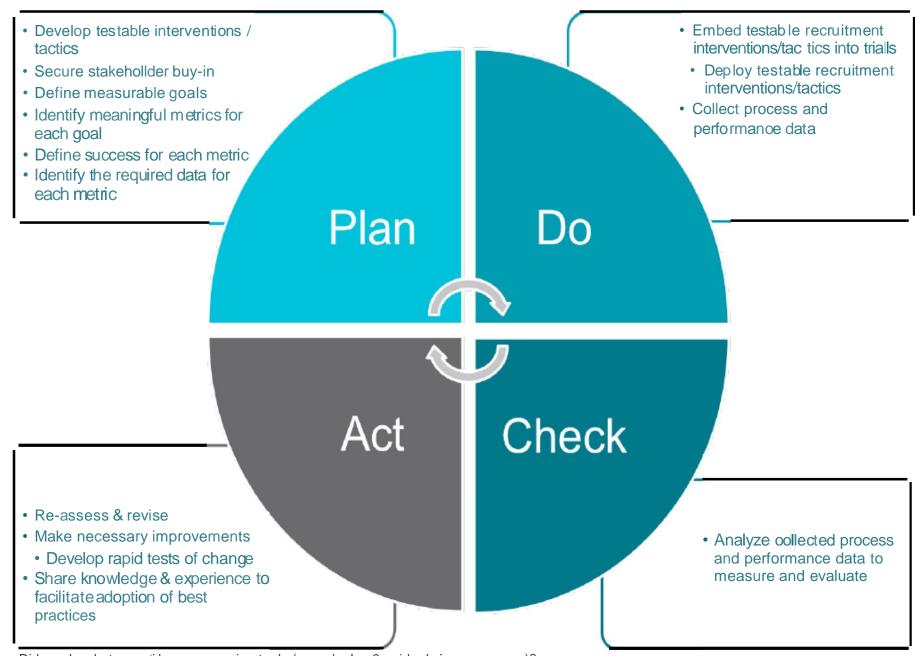


FIGURE 2. MONITORING RECRUITMENT PROCESS AND PERFORMANCE



-Process.:Did we do what we salid we were going to do (e.g., deploy 3 paid ads in newspapers)? Performance: What impact did the intervention have (e.g., increase enrollment by 10%)?

Tool #2: Stakeholder Identification and Analysis Tool

STAKEHOLDERS & RESOURCES		TACTICS		
Characteristic	Why this group is important to a successful trial (e.g., their role)	What do we need them to know and to do? What do we need to know about their current attitude(s) or concerns?*	How can they help us develop a viable study?**	How and when should/can/will we engage them? How frequently will we need to communicate with them to maintain their engagement?
Participants				
Patients				
(diagnosed)				
Patients (at risk)				
Healthy persons				
Families of patients				



CTTI Recruitment Project Conclusions

- Actionable solutions are needed since, without them, the promise of many trials will remain unfulfilled. It is time to move recruitment planning upstream and parallel to the clinical trial design process to ensure trial feasibility given the anticipated scientific, environmental, financial, time, and resource constraints
- Description of a clinical trial. Power and thought that is more inclusive of all who might have influence on, or be influenced by, the development and implementation of a clinical trial.
- ▶ The development of protocol elements must be done with attention paid to upstream activities that may have a downstream impact on recruitment.





Thank you.



With tremendous thanks to the CTTI Recruitment Project Team for all their efforts at making these recommendations possible

Jamie Roberts, MA, MPH, CCRP Project Manager Jamie.Roberts@duke.edu