









## Table of Contents







## Collaboration as a Catalyst

CTTI comprises all stakeholders from the clinical trial enterprise working together as equal partners. Together, we continue to stand shoulder to shoulder and break down barriers to achieving quality, efficient clinical trials. We see an improved clinical trial system as a vehicle for bringing timely advances in care to patients and addressing pressing public health concerns.

Through strength in collaboration, we are a catalyst for transformation. We recognize that one stakeholder alone cannot provide solutions to the challenges facing clinical trials. Leveraging the ideas and experiences of all stakeholders leads to better, more efficient clinical trials. This approach is reflected in our membership and throughout our project activities.

In this report, we detail CTTI's 2016 successes confronting leading challenges. We have developed evidence-based, consensus-driven recommendations to fuel meaningful changes in medical product development, such as enhanced participant recruitment strategies and approaches for more streamlined clinical trials of new antibacterial therapies. We also drove adoption of these recommendations to make better clinical trials a reality.

While significant advancements have been made, many opportunities remain to improve clinical research, and ultimately benefit the lives of patients. Our recently updated strategic plan provides a blueprint for how we can make a difference in clinical trials. Along with sharing the progress we have made, this report outlines key areas where CTTI will be developing and driving adoption of improved practices going forward.

We look forward to continued partnerships with our members and other stakeholders to transform clinical research. Together, we can create a better system for clinical trials.

Pamela Tenaerts, MD, MBA Executive Director, CTTI

## 2016 Highlights

In 2016, we made some important continues to do timely, mean recommendations became evidence-based recommendation made over the past year in	NEW CTTI MISSION: To develop & drive adoption of practices that will increase the quality & efficiency of clinical trials				
	Results >>				
Systematic Evidence Generation	Began developing recommendations to promote integration of mobile technologies in clinical trials for regulatory submissions	Facilitated 7,315 downloads of the Aggregate Analysis of ClinicalTrial. gov (AACT) datasets in 2016, which provide important insights on the state of clinical trials	Upgraded the AACT database to increase its functionality and broaden its user base; data are now refreshed nightly  Implemented a policy to compensate patient representatives for their work on CTTI projects		
Patients as Equal Partners	Partnered with the FDA to create a forum for discussing how to better engage patients in regulatory discussions across the FDA	Changed the culture of clinical research to increase meaningful engagement with patient groups in clinical trials—we continue to set the bar higher for patient engagement in clinical research			
Efficient & Quality Trials	Developed an innovative approach that organizations can apply to move strategic recruitment planning earlier, increasing recruitment success and alleviating downstream challenges	Released tools to help integrate recruitment planning throughout all stages of a clinical trial and to better engage all stakeholders, which can lead to increased enrollment	Facilitated >1,000 downloads of our Quality by Design recommendations, which sponsors apply to improve trial integrity and efficiency		
Public Health Concerns	Developed principles for more feasible and streamlined hospital- acquired and ventilator-associated bacterial pneumonia (HABP/VABP) trials	Enrolled >5,750 patients in a risk factor study to provide evidence that following these patients may lead to possible recruitment in clinical trials, thereby supporting organizations in adopting our early enrollment strategy for more feasible HABP/VABP trials	Released evidence regarding patient and physician perspectives on the use of streamlined antibacterial drug development approaches to inform future use of these approaches		
Safe & Ethical Trials	Published recommendations for data monitoring committee (DMC) organization and conduct to enhance the quality of trial oversight	Identified actions organizations can take to support the growing demand for qualified, effective DMC members			

These provide a framework that focuses our efforts on high-priority areas as we work to move the needle towards a better clinical trial system.

## 2016 Highlights

In 2016...



Our website had:

153,000 page views (24% increase over previous year)

32.000 downloads

(59% increase over previous year)



#### **TOP 5 DOWNLOADED RECOMMENDATIONS**

- 1. Quality by Design
- 2. SAE Reporting
- 3. Patient Groups & Clinical Trials
- 4. GCP Training
- 5. Informed Consent



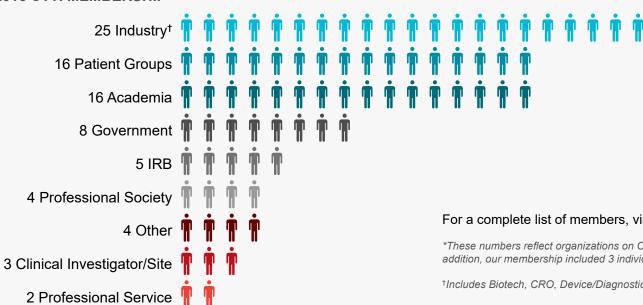
∠ presentations at conferences or professional meetings



publications in peer-reviewed



#### 2016 CTTI MEMBERSHIP\*



For a complete list of members, visit the <u>final page</u> of this report.

\*These numbers reflect organizations on CTTI's Steering Committee. In addition, our membership included 3 individual patient/caregiver representatives.

†Includes Biotech, CRO, Device/Diagnostic, Pharma, and Technology

## Systematic Evidence Generation

The systematic generation of evidence to inform healthcare decisions is a top national priority, as well as one of CTTI's strategic areas of focus. CTTI's efforts are helping to transform how and what data are generated and included in clinical trials, toward the goals of increasing knowledge and creating more efficient and cost-effective research.

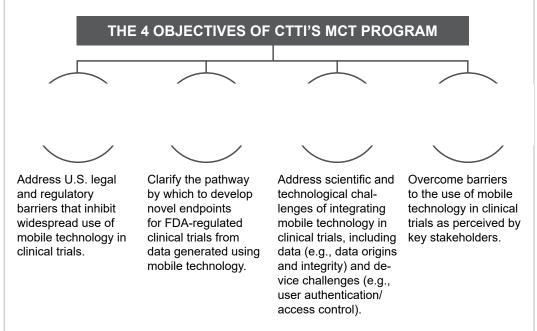
# Realizing the Promise of Mobile Technologies

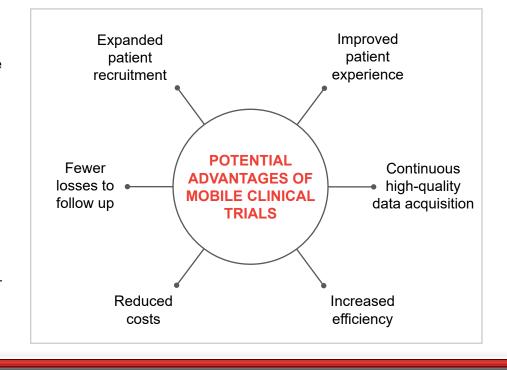
Through its <u>Mobile Clinical Trials (MCT) program</u>, CTTI is paving the way for mobile technologies to be incorporated in and transform clinical trials for regulatory submissions.

Despite enthusiasm among sponsors, patients, and other stakeholders, there is currently a lack of best practices on how to effectively integrate mobile technologies into clinical trials for regulatory submissions.

a specific challenge that could threaten or delay widespread adoption of these promising technologies in clinical trials. Our multi-stakeholder teams are gathering evidence, along with expert input, to assure development of effective tools and actionable solutions that can be used by sponsors, investigators, industry, and regulators to support the use of mobile technology for enhancements to clinical trials.

For example, the <u>Novel Endpoints Project</u> is defining a pathway for developing novel endpoints using data generated by mobile technologies. Such technologies present opportunities to generate new endpoints that are not currently used, as well as to develop new and better ways measure existing endpoints. At an expert meeting, teams of investigators, patients, statisticians, engineers, and mathematicians, worked through four use cases to identify steps, requirements, challenges, and potential solutions for the endpoint development process. The four scenarios focused on the use of an accelerometer measuring physical activity as an outcome for Parkinson's disease, heart failure, and muscular dystrophy trials, and the use of a continuous glucose monitor measuring blood sugar level as an outcome for diabetes trials. Results from this work are being prepared for publication and will form the basis of recommendations for clarifying the pathway to develop novel endpoints.





## Systematic Evidence Generation

# Assessing the Clinical Trials Landscape to Direct Improvements

ClinicalTrials.gov has >220,000 registered studies; CTTI's database and tools help mine this data to uncover important insights that can prompt changes in clinical trials.

Through its <u>Aggregate Analysis of ClinicalTrial.gov</u> (<u>AACT</u>) <u>database</u>, CTTI provides an analyzable and publicly available dataset of ClinicalTrials.gov data that can be used to characterize the state of clinical trials and evaluate trends over time. The database has become a key resource for assessing the clinical trials enterprise.

In response to feedback, this year we upgraded this tool to improve the timeliness of data, increase functionality, and make it accessible to a broader group of people. The database now resides in the cloud and is refreshed nightly with information from ClinicalTrials.gov. Historical AACT (biannual) datasets remain available for analysis of trends over time.

Individuals can query the database directly or download it as a static dataset. The updated version of AACT is based on open-source technologies and requires no proprietary software—any program can be used for analysis. In accordance with our value of transparency, the database source code is openly available.

We hope AACT will continue to be a valuable resource. With the new NIH policy and final rule for FDAAA 801 in effect for clinical trial results reporting, there is an opportunity for more organizations to use this timely and easily accessible data to monitor their compliance.

	Original AACT	Upgraded AACT
Complete, analyzable dataset of ClinicalTrials.gov data		
Free		
Publicly accessible		
Documentation for users		
Frequency of content refresh	Every 6 months	Daily
Snapshots available for download		
Accessible in the cloud		
Based on open-source technologies		
Source code available		

#### **EXAMPLES OF INSIGHTS POSSIBLE WITH AACT:**

- ▶ View of the clinical trial enterprise as a whole
- ► Study design characteristics, such as phase, type of intervention, randomization, masking, age or sex restrictions
- Analysis of trials by specialty and funding source
- ► Enrollment goals and whether they are met
- ► Prevalence of DMC use
- ► Compliance with results reporting requirements

THE AACT
DATABASE HAS
BECOME A KEY
RESOURCE FOR
ASSESSING THE
CLINICAL TRIALS
ENTERPRISE:



> 18,500 total downloads of AACT files & 7.315 downloads in 2016



>20 publications since 2010



Community of regular users

## Patients as Equal Partners

# CTTI is setting the standard for effective engagement with patients throughout the research process.

Our <u>recommendations</u>, along with evidence on the effectiveness and value of engagement methods continues to move the field toward patients as equal partners.

We have developed detailed considerations and best practices for patient group involvement and relationship building in clinical trials. Our recommendations include ways to assist research sponsors with evaluation of patient group expertise, assets, stability, communications strength, and record of partnerships. Applying these strategies can help promote informed decision-making and more effective partnerships between sponsors and patient groups.

Through more recent initiatives, described on the next page, we continue to support patient engagement in medical product development. For example, work is ongoing to test and refine an economic model to help quantitatively demonstrate the value of patient group engagement in clinical trials.

By providing tools for establishing successful relationships, partnerships with patient groups around clinical trials are occurring with greater frequency. Our evidence-based recommendations for engaging patient groups around clinical trials have now been implemented by numerous organizations from different stakeholder groups, including industry, regulatory agencies, and patient advocacy groups. The "engage early, engage often" approach is resulting in meaningful connections throughout the research and development process.



#### **USE OUR TOOLS FOR CHANGE**

- ▶ Patient Groups & Clinical Trials Recommendations
- ▶ Patient Group Organizational Expertise and Assets Evaluation Tool
- ► Assessment of Patient Group Internal Aspects
- ► Assessment of Patient Group External Relationships



## CTTI RECOMMENDATIONS IN ACTION: UCB PHARMACEUTICALS INC.

UCB Biosciences Inc. is applying CTTI's recommendations to develop mechanisms for implementing patient engagement strategies across the drug development life cycle. They have adapted the CTTI patient group engagement framework for their use. The result has been that UCB has developed a strategic vision to partner with patients at every step of the clinical development process to identify needs and inform study design and operations. Implementing these processes involved creating a culture shift toward patient centricity and delivering patient value. Under the new patientcentric model, there is a strategic vision considerate of all patient engagement opportunities, a focus on identifying true and actionable patient insights, a goal of delivering value to patients, and an appreciation of patients as valued partners.



## CTTI RECOMMENDATIONS IN ACTION: FASTERCURES

FasterCures used CTTI's Patient Group Organizational Expertise and Assets Evaluation Tool to design a survey for patient groups to complete when applying for inclusion in FasterCures' Patients Count Network. The information gathered becomes part of this new digital directory for patient organizations, which can be accessed by research stakeholders to identify prospective partners. CTTI's tool helped to operationalize the criteria by which sponsors and researchers might gauge the capabilities of patient organizations. Several of CTTI's patient engagement—related resources are also included in FasterCures' Resource Library.

## Patients as Equal Partners



# FDA and CTTI Partner to Establish New Patient Engagement Collaborative

We are excited to be working with the FDA on a joint endeavor to create an ongoing, collaborative forum related to increasing patient engagement in medical product development and regulatory discussions across the FDA. Hosted by CTTI, the Patient Engagement Collaborative (PEC) will bring together members of the patient community with the FDA to exchange ideas on topics such as transparency, communication, and new models of collaboration.

The PEC is being established in response to public feedback the FDA received regarding implementation of the Food and Drug Administration Safety and Innovation Act, section 1137, Patient Participation in Medical Product Discussions. Comments suggested, among other topics, that an external group be established to provide input on patient engagement strategies across FDA's Centers.

When it formally launches in 2017, the PEC is anticipated to include 16 diverse representatives of the patient community, together with representatives from FDA and CTTI.

# CTTI's New Policy on Compensating Patient Representatives

CTTI values the important contributions from the patient community, as it does all stakeholders involved in clinical trials. However, we recognize that patients may have different barriers to participation. Effective in 2016, we provide monetary compensation to patient representatives for time spent on CTTI activities. This policy is in alignment with the Patient-Centered Outcome Research Institute's Framework for Financial Compensation for Patient Partners in Research. Compensation is provided in the form of bi-annual stipends and is in addition to travel support for CTTI meetings.

## Trials Designed with a Focus on Efficiency & Quality

Quality and efficiency have been at the core of CTTI's mission since its inception. Our results and recommendations help organizations that design, conduct, regulate, sponsor, and participate in clinical trials to produce high-quality evidence while reducing waste and delays.

## Rethinking Clinical Trial Recruitment

CTTI's recommendations address recruitment challenges through strategic recruitment planning, and by advocating for this planning to begin earlier—during clinical trial design rather than execution.

Trials that fail to recruit can delay the availability of new medical products to patients. Sponsors, sites, and trial managers will commonly ask while a trial is underway, "We are not meeting our recruitment goals. What can we do to fix this?" Our recommendations propose a fundamental shift in clinical trial recruitment to an approach that integrates strategic recruitment planning throughout all stages of a clinical trial. Thinking about protocol elements that may affect recruitment during the design and development phases—before study activation—will help alleviate recruitment challenges later. We call this "creating recruitable protocols."

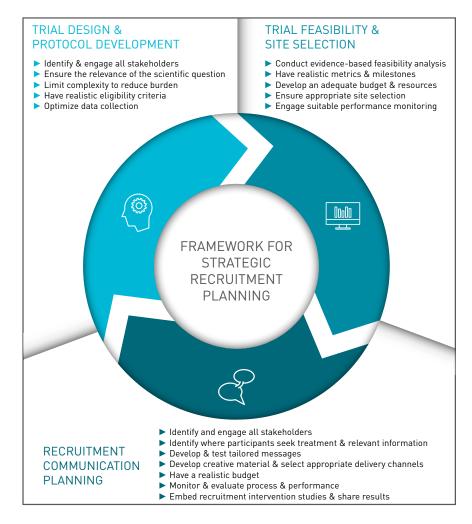
Another critical element is that

recruitment planning needs to be more inclusive of all relevant stakeholders. Gathering insights from patients, study coordinators, and clinical investigators during study planning can provide perspectives on things these individuals value, as well as factors that may inhibit effective recruitment, such as an overly burdensome study visit schedule.

This work reinforces and builds upon CTTI's recommendations for clinical trial quality by design and effective engagement with patient groups. We have provided the framework and tools for implementing an improved approach to clinical trial recruitment planning. To date, the recruitment recommendations are being used by Eli Lilly and Company, the National Cancer Institute's Experimental Therapeutics Clinical Trials Network, and Duke University's Clinical & Translational Science Institute (CTSI) Recruitment Innovation Center.

The Recruitment Project recommendations are the result of an in-depth study evaluating why too often clinical trial recruitment efforts fail. These recommendations have the potential to catalyze greater efficiencies in diverse patient recruitment—women, minorities, and older adults—by focusing on the earliest stages in protocol development."

-Jonca Bull, MD, Assistant Commissioner for Minority Health, US FDA





#### **USE OUR TOOLS FOR CHANGE**

- Recruitment Recommendations
- ▶ Decision Tree for Optimizing Protocol Design
- ► Stakeholder Identification and Analysis Tool
- ► Monitoring Recruitment Process & Performance
- ► Special Note on Patient-Reported Outcomes



## Addressing Emerging Public Health Concerns

CTTI undertakes projects in therapeutic areas where better clinical trials are needed to address specific public health concerns. A current area of focus is antibacterial drug development.

CTTI is advancing the field of antibacterial drug development with strategies to make trials more feasible and efficient.

The staggering rates of antibacterial-resistant infections and associated complications speak to the desperate need for new treatment options that are safe and effective. The FDA has several initiatives aimed at combating antibiotic-resistant bacteria. One of these is CTTI's Antibacterial Drug Development (ABDD) program, which is targeting high-priority areas to accelerate the development of new antibacterial therapies as a way of addressing the public health crisis of antibacterial resistance.

## Streamlined Development to Address Unmet Needs in Antibacterial Drug Development

This year, CTTI released new findings that can help inform the use of streamlined development pathways for antibacterial drugs, as well as labeling and risk communication for drugs developed using these approaches. CTTI's findings indicate that patients and providers recognize the usefulness of streamlined development approaches in situations with limited or no treatment options, though they expressed preferences for careful oversight, transparency in risk communication, and monitoring and reporting of safety and efficacy post-approval.

<sup>1</sup>Review on Antimicrobial Resistance. Antimicrobial Resistance: Tackling a Crisis for the Health and Wealth of Nations. 2014. Available at https://amrreview.org/.

**GLOBALLY, IF ANTIBACTERIAL RESISTANCE IS** NOT ADDRESSED<sup>1</sup> BY 2050, DRUG-RESISTANT INFECTIONS COULD RESULT IN:



2 10,000,000 deaths annually



100,000,000,000,000 worldwide cost



Chemotherapy would not be possible



Routine surgeries such as caesarean sections or joint replacements could be life-threatening



As someone whose susceptibility to multiple infections and pneumonias has plagued me for six decades, these recommendations signal a transformational breakthrough."

-Stephen Mikita, patient advocate

## Addressing Emerging Public Health Concerns

## Making HABP/VABP Trials More Feasible and Efficient

CTTI released two sets of recommendations to advance clinical trials for an important and particularly challenging area: hospital-acquired and ventilator-associated bacterial pneumonia (HABP/VABP). HABP/VABP occurs in seriously ill patients and is associated with high rates of antibiotic resistance and mortality. CTTI's innovative approaches to designing clinical trials for HABP/VABP include early enrollment strategies and the streamlined collection of safety data. Principles from this work informed FDA's 2014 HABP/VABP draft guidance<sup>1</sup> and may be useful for other types of ABDD trials.

The CTTI HABP/VABP recommendations appeared as part of a *Clinical Infectious Diseases* <u>supplement</u> featuring a variety of approaches for strengthening the pipeline of new antibacterial drugs. CTTI engaged global experts in the development of the supplement, which highlights the important role of public-private partnerships and is illustrative of the types of collaborations needed to advance ABDD.

<sup>1</sup>U.S. Food and Drug Administration. Draft Guidance for Industry on Hospital-Acquired Bacterial Pneumonia and Ventilator-Associated Bacterial Pneumonia: Developing Drugs for Treatment. May 7, 2014.



#### **USE OUR TOOLS FOR CHANGE**

- Recommendations for Streamlining Protocol Elements for Hospital-Acquired Bacterial Pneumonia (HABP)/ Ventilator-Associated Bacterial Pneumonia (VABP) Trials
- Recommendations for Optimizing Operational Efficiency for Data Collection in Hospital Acquired Bacterial Pneumonia (HABP)/Ventilator Acquired Bacterial Pneumonia (VABP) Trials

## Driving Adoption of Improved Practices for HABP/VABP Trials

CTTI is conducting its first multi-center observational study, the results of which will provide an improved understanding of risk factors associated with HABP/VABP development and causes of clinical trial ineligibility. Optimizing the screening process and reducing screening failures could improve the feasibility of HABP/VABP trials, which are costly and challenging to conduct. Findings from this research will inform adoption of CTTI's recommended early enrollment strategy for HABP/VABP trials. Enrollment started in February 2016, and over 5,750 adults have been enrolled across 28 U.S. sites. CTTI is also collaborating with the NIH Pediatric Trials Network to conduct the risk factors study in pediatric patients. Enrollment began in August 2016, and over 180 patients have been enrolled.

Additional CTTI recommendations are forthcoming regarding how to address the unique challenges of ABDD in pediatric populations.



This type of work to develop and refine the approaches for testing antibacterial drugs for treating HABP/VABP would not be performed by any one individual drug company, but it is the type of science that can benefit the overall field of antibacterial drug development... We look forward to continued progress of the CTTI effort and the results from additional studies that will evaluate proposed solutions to these challenges."

-Edward M. Cox, MD, MPH, Director of the Office of Antimicrobial Products, Center for Drug Evaluation and Research, US FDA

## Safe & Ethical Clinical Trials that Are Streamlined

CTTI recognizes that the safety of participants remains paramount in clinical research. Projects in this area of focus are aimed at ensuring that appropriate, value-added safeguards are in place to assess safety and that ethical standards for informing trial participants are met.

## Best Practices for Data Monitoring Committees

CTTI has developed actionable <u>recommendations</u> for how to organize and conduct a data monitoring committee (DMC) in order to enhance the quality of trial oversight.

The use of DMCs has evolved over the past 50 years, and for a growing number of trials, DMCs play a unique and critical role in monitoring emerging data to assess the benefit-risk ratio for participants and make independent decisions regarding the need to modify or terminate a trial early.

Despite their important role in assuring the safety of trial participants, few DMC members receive any formal training on DMC operations, and published standards on DMC organization and conduct were lacking. Through research and multi-stakeholder input on DMC practices, CTTI developed recommendations that sponsors and DMCs can apply to enhance the quality of trial oversight. These include best practices for DMC composition, communications, and data reviews. Our recommendations also outline steps that organizations can follow to develop and identify qualified DMC members in order to keep up with the growing demand. Results from this project were published in *JAMA* and *Clinical Trials*.



#### **USE OUR TOOLS FOR CHANGE**

- ▶ DMC Recommendations, which include:
  - Specific DMC Responsibilities
  - Best Practices for DMC Meetings & Related Communication
  - ∘ Sample DMC Charter Table of Contents & Points of Consideration



# CTTI RECOMMENDATIONS IN ACTION: CYSTIC FIBROSIS FOUNDATION LOOKS TO IMPROVE ITS DMC

The Cystic Fibrosis Foundation has applied CTTI's recommendations to improve its DMC operations in several ways. After reviewing the recommendations, the foundation initiated a survey to get sponsor feedback on whether there were opportunities to improve its DMC operations. It also plans to review and possibly revise the data report template provided to sponsors. In negotiating with more than 60 trial sponsors, the recommendations serve as a helpful reference document and source of support on DMC issues. The CTTI recommendations also encouraged the foundation to consider how much data the DMC should see and in what format. Finally, though the foundation had a comprehensive training program for DMC members, it has now adopted CTTI's recommendation to train the next generation of DMC members by proactively involving fellows and junior faculty in new DMCs.

**EVIDENCE** 

Survey & focus groups of DMC members, patient advocates, IRB & FDA representatives, sponsors (industry, government, & nonprofit), & statistical data analysis center representatives.

Multi-stakeholder input

Best practices for DMC composition, member training & qualifications, roles & responsibilities, charter development, communication practices.

- 1. Enhanced quality of trial oversight
- 2. Support development of next generation of DMC members

**IMPACT** 

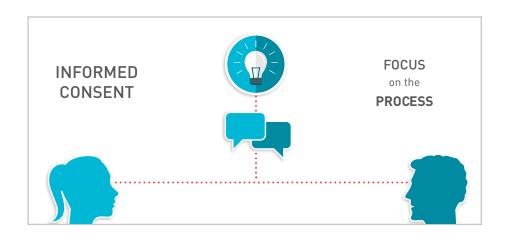
## Safe & Ethical Clinical Trials that Are Streamlined

## Creating a More Effective Informed Consent Process

We continue to support implementation of CTTI's recommendations for improving informed consent. The recommended strategies and tools reorient the informed consent process to an interactive conversation that better facilitates patient understanding and decision-making. Suggestions also help organizations create a more patient-friendly informed consent document, including the use of a tiered consent approach that presents critical information first. However, the document should be viewed as supportive and not the focus of the consent process. We are collecting and sharing information on implementation of these recommendations so that others will have real-world examples to follow as they apply the recommendations within their own organizations.



Eli Lilly and Company is implementing CTTI's informed consent recommendations through their new e-consent model, which also follows health literacy best practices and includes multimedia formats such as video to address a variety of learning types and improve overall comprehension. Their proposed model to transform consent includes an interactive electronic consent that can customize the informed consent experience to the user's preference. It incorporates CTTI's recommendation for a tiered consent model that delivers the most important information to the patient, such as risk-benefit considerations, and includes a detailed reference section for additional information. The ultimate goal is improved patient satisfaction and decision-making, as promoted in CTTI's recommendations.



We are confident these recommendations will result in a more efficient and higher quality informed consent process conducted by clinical research professionals. A clear understanding of the risks and expectations clinical trial participants face will enhance their experience and drive better quality research."

-Jim Kremidas, ACRP Executive Director



#### **USE OUR TOOLS FOR CHANGE**

- Informed Consent Recommendations
- ▶ Informed Consent Discussion Tool
- ► Informed Consent Training Resources
- ► Sample Tiered Informed Consent Model

### A Look Ahead

The progress we accomplishing together is inspiring. We have made important strides this year in making trials more efficient and quality driven. Looking to the future, CTTI will be sharing new strategies to curb the epidemic of investigators leaving clinical research, best practices for conducting clinical trials for regulatory purposes within registries, and ways to overcome challenges of conducting antibacterial drug trials for children, to name a few. Also, within the next year, the MCT program will be producing actionable recommendations to support the use of mobile technology in regulatory submission trials.

## **Driving Adoption**

In addition to these forthcoming recommendations, CTTI's mission was recently refined to reflect our commitment to actively drive adoption of the improved practices we recommend. Our work does not end when we issue our recommendations. We hope you will be involved with us as an innovator and apply our evidence-based tools and recommendations to improve your clinical trials.

#### LIST OF ALL CTTI RECOMMENDATIONS & TOOLS:

Streamlining Protocol Elements for HABP/VABP Trials August 2016

Optimizing Operational Efficiency for Data Collection in HABP/VABP Trials August 2016

Data Monitoring Committees (DMCs) May 2016

#### Efficient and Effective Clinical Trial Recruitment Planning May 2016

- ► Decision Tree for Optimizing Protocol Design
- ► Stakeholder Identification and Analysis Tool
- ► Monitoring Recruitment Process & Performance
- ► Special Note on Patient-Reported Outcomes

#### Desired Attributes of Electronic Portals for Expedited Safety Reporting December 2015

#### **Informed Consent** November 2015

- ► Informed Consent Discussion Tool
- ► Informed Consent Training Resources
- ► Sample Tiered Informed Consent Model

#### Effective Engagement with Patient Groups around Clinical Trials October 2015

- ▶ Patient Group Organizational Expertise and Assets Evaluation Tool
- ► Assessment of Patient Group Internal Aspects
- ► Assessment of Patient Group External Relationships

#### **Quality by Design** *June 2015*

- ▶ Principles Document
- ▶ QbD Toolkit

#### Advancing the Use of Central IRBs for Multi-center Clinical Trials April 2015

- ► Evaluation Checklist
- ► Template IRB Authorization Agreement
- ▶ Considerations Document

#### Good Clinical Practice (GCP) Training For Investigators January 2015

IND Safety Assessment and Communication November 2013

Use of Central IRBs for Multi-center Clinical Trials January 2013

Effective and Efficient Monitoring as a Component of Quality Assurance in the Conduct of Clinical Trials May 2011

Improving Reporting of Unexpected Serious Adverse Events (SAEs) to Investigational New Drug (IND) Investigators May 2011

## CTTI Portfolio of Projects & Collaborations











Strategic Focus:	SYSTEMATIC EVIDENCE GENERATION	PATIENTS AS EQUAL PARTNERS	EFFICIENT & QUALITY TRIALS	PUBLIC HEALTH CONCERN	SAFE & ETHICAL TRIALS
Completed Projects:	Large Simple Trials		GCP Training  Monitoring  Quality by Design  Recruitment  Site Metrics	ABDD Streamlining HABP/ VABP Trials ABDD Unmet Need Long-Term Opioid Data	Central IRB Central IRB Advancement DMCs Informed Consent IND Safety IND Safety Advancement SAE Reporting
Active Projects:	MCT Legal & Regulatory MCT Mobile Devices MCT Novel Endpoints MCT Stakeholder Perceptions Registry Trials State of Clinical Trials	Patient Groups & Clinical Trials	GCP Follow On Investigator Turnover	ABDD HABP/VABP Studies ABDD Peds Trials	Pregnancy Testing
Completed Collaborations:	Clinical Trials for Comparative Effectiveness Electronic Healthcare Data	Patient Engagement Survey	Clinical Trials Poll FDA Training Course	Cardiovascular Endpoints	
Active Collaborations:	Sentinel IMPACT-AFib	Patient Engagement Collaborative		ABDD PTN	

LOOK FORWARD TO MORE WORK FROM OUR ACTIVE PROJECTS AND COLLABORATIONS IN 2017.

### Thank You

We would like to thank all of our members for their active involvement over the past year. Through your contributions, we have made great strides in improving the clinical trials enterprise. CTTI members often serve as early adopters of improved practices and as trailblazers for the rest of the clinical trial enterprise.



#### **2016 CTTI MEMBERS:**

**ACI** Clinical

ActiGraph

AdvaMed

Agency for Healthcare Research and Quality

Alexion Pharmaceuticals Inc

Alliance for Lupus Research Alnylam Pharmaceuticals

American Society of Clinical Oncology

Amgen Inc

Arthritis Foundation

Association of Clinical Research Professionals

Biomedical Advanced Research and Development Authority

Biomedical Research Alliance of New York Biotechnology Innovation Organization

CR Bard Inc

Celgene Corporation

Cempra Pharmaceuticals Inc

Centers for Disease Control and Prevention

Centers for Medicare & Medicaid Services

Chesapeake IRB CITI Program

Cleveland Clinic Coordinating Center for Clinical Research

Clinical Data Interchange Standards Consortium Consortium of Independent Review Boards

Crohn's & Colitis Foundation of America
Dana-Farber Cancer Institute

Department of Veterans Affairs

**Drug Information Association** 

**Duke University** 

Eli Lilly

EMD Serono Inc

FasterCures, a Center of the Milken Institute

Feinstein Institute for Medical Research

Food and Drug Administration

Foundation for Prader-Willi Research

Friends of Cancer Research

Genentech – a member of the Roche Group

GlaxoSmithKline

Greenleaf Health LLC

JDRF International

Johnson & Johnson

Julius Clinical

King & Spalding LLP

Medidata Solutions

MedStar Health Research Institute

Medtronic Inc

Melanoma Research Alliance

Merck & Company

MPN Research Foundation

National Institutes of Health

National Organization for Rare Disorders

NC TraCS-University of North Carolina at Chapel Hill

New York University Langone Medical Center

Office for Human Research Protections

Palo Alto Investors LLC

Parent Project Muscular Dystrophy

Parkinson's Disease Foundation

Pfizer

**PhRMA** 

PMG Research

Population Health Research Institute-McMaster University

Pulmonary Fibrosis Foundation

Purdue Pharma LP

Quorum Review IRB

Rexahn Pharmaceuticals

Society for Clinical Research Sites

Society for Clinical Trials

St Jude Medical

Susan G Komen

Target Health Inc

The George Institute

The Life Raft Group

The Marking Comment

The Medicines Company

The Michael J Fox Foundation for Parkinson's Research

University of Kansas Medical Center

University of Missouri

University of Oxford Center for Tropical Medicine

University of Oxford Clinical Trials Service Unit

University of Rochester

University of Wisconsin

Offiversity of Wisconsin

WIRB-Copernicus Group

Women's Heart Alliance

Yale University

#### **2016 CTTI EXECUTIVE COMMITTEE:**

Mark McClellan, MD, PhD Chair of EC Duke-Margolis Center for Health Policy

John Alexander, MD, MHS Co-Chair of CTTI Duke Clinical Research Institute

CDR Melissa Robb Co-Chair of CTTI US FDA (CDER) Hans-Georg Eichler, MD, MSc European Medicines Agency

Dalvir Gill, PhD
TransCelerate BioPharma Inc.

Louis Jacques, MD

Richard E. Kuntz, MD, MSc Medtronic Inc

Michael Lauer, MD
National Institutes of Health

Freda C. Lewis-Hall, MD Pfizer Inc

Briggs Morrison, MD Syndax Pharmaceuticals Inc

Virginia Nido Genentech-member of the Roche Group

Richard Platt, MD, MSc Harvard Pilgrim Health Care Institute Nancy Roach Colorectal Cancer Coalition

Joe V. Selby, MD, MPH Patient-Centered Outcomes Research Institute

Robert Temple, MD US FDA (CDER)

Veronica Todaro, MPH
Parkinson's Disease Foundation

Bram Zuckerman, MD US FDA (CDRH)

JS FDA (CDRH