ClinicalTrials.gov Basics

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Introduction

Why this is important?

- Ethics
- Science
- Responsible stewardship of funds
- Compliance with federal statutes
- Avoid the penalties



Websites

THOME - ClinicalTrials.gov CI ClinicalTrials.gov PRS: Lr × + ×			
← → Ů ⋒ https://register.clinicaltrials.gov/			
ClinicalTrials.gov PRS	← → Ů ⋒ A https://clinicaltrials.gov/		
Protocol Registration and Results System	NIH U.S. National Library of Medicine		
Login	ClinicalTrials.gov	Find Studies ▼ About Studies ▼ Submit Studies ▼ Resources ▼ About Site ▼	
Welcome to the ClinicalTrials.gov Protocol Registration and Results System (PRS).	_		
Organization: SKCCC One-word organization name assigned by PRS (sent via email when account wa Username: alalji Password: •••••••• Forgot password	ClinicalTrials.gov is a database of privately an conducted around the world.	ind publicly funded clinical studies	
Login	Explore 273,543 research studies in	Find a study (all fields optional)	
	all 50 states and in 204 countries.	Recruitment status 0	
See <u>Submit Studies</u> on ClinicalTrials.gov for information on how to apply for an account, how to register your study, and how to Send email to ClinicalTrials.gov PRS Administration	ClinicalTrials.gov is a resource provided by the	Oncertaining and not yet recraining stadies	ublic Site
	U.S. National Library of Medicine. IMPORTANT: Listing a study does not mean it has	All studies https://clinicaltrials.g	gov
	been evaluated by the U.S. Federal Government.	Condition or disease (For example: breast cancer)	
U.S. National Library of Medicine U.S. National Institutes of Health U.S. Department of Health & Human Services	Read our <u>disclaimer</u> for details.	x	
	Before participating in a study, talk to your health care provider and learn about the <u>risks and</u>	Other terms (For example: NCT number, drug name, investigator name)	
	potential benefits.	x	
Protocol Registration & Results		Country 🔁	
System (PRS)		x	
https://register.clinicaltrials.gov		Search Advanced Search	
		Help Studies by Topic Studies on Map Glossary	
	Patients and Families Researce Search for actively recruiting studies that you may be Search the	rechers Study Record Managers te database to stay up to date on developments Learn about registering studies and about submitting	
215 million norro views/month	able to participate in or learn about new in your field	eld, find collaborators, and identify unmet needs. their results after study completion.	
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Modernized Public Website

National Library of Medicine National Center for Biotechnology Information		PRS Login
linical Trials.gov	About This Site 🗸 Data About Studies 🗸 Study Basics 🗸	PRS Info ~
ome > Search Results		
The U.S. government Read our full disclaimer for	: does not review or approve the safety and science of all studies listed on this website. r details.	+
Focus Your Search (all filters optional)	Search Results Viewing 1-10 out of 3,164 studies Synonyms of conditions or disease (17)	:≡ Table View
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Other terms Other terms Other	ACTIVE, NOT RECRUITING CARdioprotection in Myocardial Infarction conditions	NCT02967965
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3 Reasons to Register

- 1. It's the law.
- 2. NIH and other gov't agency requirement
- 3. Journal requirement



Key Components of the HHS Final Rule under FDAAA

Final Rule (42 CFR Part 11)

Released: September 2016, Effective: January 2017, Compliance date: April 2017

- Applies to Applicable Clinical Trials (ACTs)
- Register within **21 days** of first participant enrollment
- Annual record verification (even if there are no changes)
- Update records within **30 days** (e.g., completion dates, recruitment status)
- Comment response within **15 calendar days** (registration) or **25 calendar days** (results)
- Submit results 365 days from primary/study completion date
- Submit full protocol and statistical analysis plan with results

HHS: Health and Human Services; FDAAA: Food and Drug Administration Amendments Act



Applicable Clinical Trials (ACTs)



- Trials of drugs/biologics Trials of devices
- And at least one of the following:
 - One or more sites in the U.S.
 - Conducted under an FDA IND/IDE application
 - Manufactured in the U.S. or its territories and exported for research

ACT Wizard: <u>http://grants.nih.gov/clinicaltrials_fdaaa/docs/Flow_chart-ACT_only.pdf</u> Identifying an ACT under FDAAA <u>http://grants.nih.gov/ClinicalTrials_fdaaa/ACTs_under_FDAAA.htm</u>







NIH Policy on the Dissemination of NIH-Funded Clinical Trial Information

(NOT-OD-16-149) Released: September 21, 2016, Effective January 18, 2017

- Complementary to the Final Rule (released the same day)
- All NIH-funded clinical trials regardless of study phase, type of intervention (even if not an ACT), including behavioral interventions will be expected to register and submit results information
- Does not apply to a clinical trial that uses NIH-supported infrastructure but does not receive NIH funds to support its conduct.
- Requires reporting of baseline race and ethnicity data (if collected)



Publication Requirements



Similar definition of a clinical trial as NIH

ICMJE journals will consider [for publication] clinical trials beginning on or after July 1, 2005 **only if** registration occurred **before** the first patient was enrolled ("prospective registration")

There have been many cases where a manuscript was rejected for publication because the study was not registered on ClinicalTrials.gov before enrolling participants



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http://www.icmje.org/about-icmje/fagsclinical-trials-registration/

UR Policy

- NCT number required for IRB submissions
- Responsible Party is the PI
- Must be registered before anyone is enrolled, even for ACTs



Potential Penalties

Final Rule (42 CFR Part 11.66)

a) Civil or criminal judicial actions

b) Civil monetary penalties up to **\$11,569 per study, per day**

c) Responsible Party, PI is liable.

d) Withholding of current or future funding to PIs or organizations that are out of compliance

https://www.govinfo.gov/content/pkg/FR-2019-11-05/pdf/2019-23955.pdf Hudson KL, Lauer MS, Collins FS. Toward a New Era of Trust and Transparency in Clinical Trials. *JAMA*.2016;316(13):1353–1354. doi: https://doi.org/10.1001/jama.2016.14668



Revised Common Rule-Informed Consent Posting

- Trial supported by a Federal department or agency
- Redactions are permitted (with approval)
- The consent form must have been used
- Uploaded **no later than 60 days** after the last study visit
- Uploaded to either ClinicalTrials.gov or Regulations.gov

45 CFR Part 46.116



Summary of Requirements

Entity	Registration	Results Reporting	Penalties
U.S Dept. Health and Human Services (HHS)	Within 21 days of enrollment	Within 365 days of primary completion date for ACTs regardless of funding source	 Criminal proceedings \$12,103/study/day Loss of grant funding
<u>National Institutes</u> of Health (NIH)	Within 21 days of enrollment	Within 365 days of primary completion date for clinical trials receiving NIH funding	Loss of grant funding (to include the institution)
<u>National Cancer</u> <u>Institute</u> (NCI)	Within 21 days of enrollment	Within 365 days of primary completion date of NCI-supported clinical trials (peer-reviewed journal and/or ClinicalTrials.gov)	Loss of grant funding
Veterans Health Administration (VHA)	Prior to enrollment; release of funding.	Within 365 days of primary completion date	Loss of grant funding



Summary of Requirements

Entity	Registration	Results Reporting	Penalties
Centers for Medicare & Medicaid Services (CMS)	All qualifying clinical trials	Study-specific	 Coverage denial Costs and fraud investigations
Patient-Centered Outcomes Research Institute (PCORI)	All Clinical studies (including observational)	Expected of all PCORI Clinical studies – 500 word abstract on PCORI website	 Loss of grant funding
Department of Defense (DoD)	Prior to enrollment. Prior to release of funding.	Study-specific	 \$12,103/study/day Withholding or recovery of award funds
National Science Foundation (NSF)	N/A	N/A	N/A
Other Federal Agencies	Check grant expectations	Study-specific	• Loss of grant funding



Results to Report- Tabular format only

Manual Entry

Tabular format only

No figures or graphs

4 main sections

- Participant Flow (consort diagram data)
- Baseline characteristics
 - Age, race, gender, ethnicity, country of enrollment, study specific measures
- Outcome measures
 - Primary and secondary, not exploratory
- Adverse events
 - All cause mortality, serious and non-serious AEs that occur in \geq 5% of participants

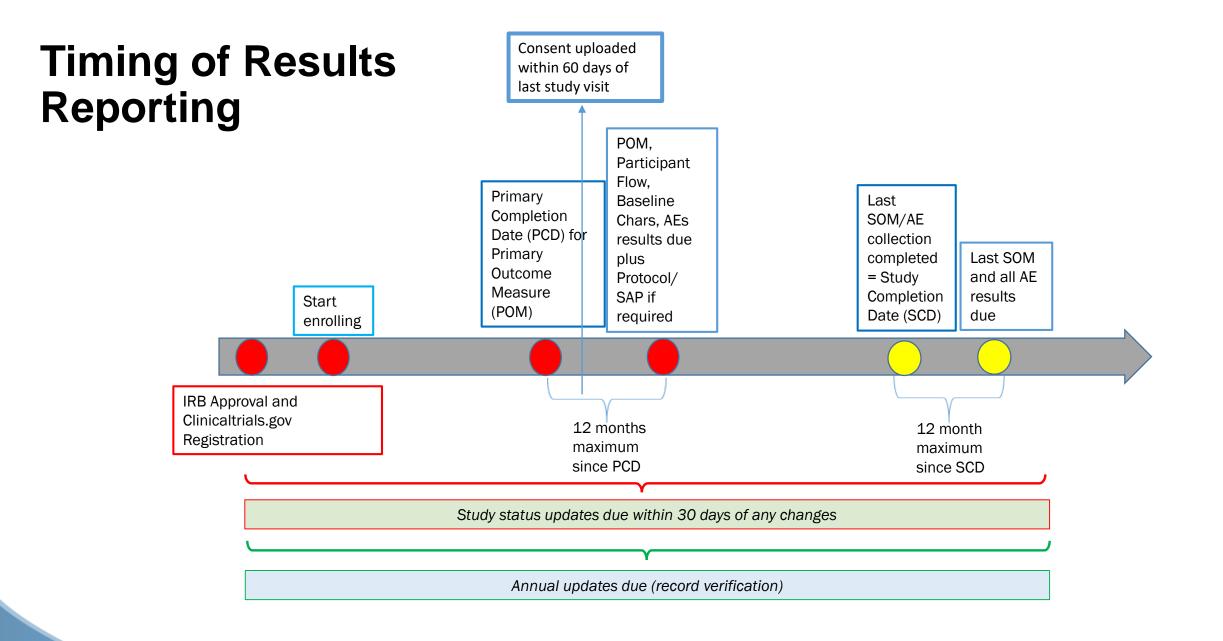


Timeline

Example study:

Enroll 1000 people to determine the efficacy of vaccine X. Primary outcome is immunological response to vaccine at day 28. Secondary outcome is safety after 1 year. No exploratory outcomes.







QC process

CT.gov staff do this after it is released (submitted) and before it is published on ClinicalTrials.gov

Focuses on

- validity (when possible)
- meaningful entries
- Logic
- internal consistency
- formatting
- Comments may com back
- Have 15 business days to address them
- NCT Number will be available on ClinicalTrials.gov within 2–5 business days
- Same process for results except they have 30 days to come their review and you have 25 days to address comments



Results Posting

CT.gov must post results publicly within 30 calendar days of submission (42 CFR 11.52) regardless whether the QC process is complete

Results Submitted - Quality Control (QC) Review Has Not Concluded

Results information for an applicable clinical trial (ACT) is posted within 30 days of submission even if the submission has not completed the <u>ClinicalTrials.gov Results</u> <u>Quality Control (QC) review process</u>. Results information is submitted to ClinicalTrials.gov by the sponsor or investigator, and National Library of Medicine (NLM) staff assess for apparent errors, deficiencies, or inconsistencies. NLM staff do not verify the scientific validity or relevance of the submitted information.

All versions of ACT results information submissions that have not completed the QC review process are posted on ClinicalTrials.gov (since January 2020). After the QC review process is completed, the results information is posted without QC review comments and previous versions are archived.

Recruitment Status () :	Completed
Actual Primary Completion Date 1:	May 30, 2022
Actual Study Completion Date ():	August 30, 2022

Submission Cycle Results Submitted to ClinicalTrials.gov • Results Returned af		Results Returned after Quality Control Review 0
1	June 1, 2023	June 23, 2023 Submission with QC Comments
2	June 25, 2023	July 17, 2023 Submission with QC Comments
3	July 17, 2023	



Focus on Quality

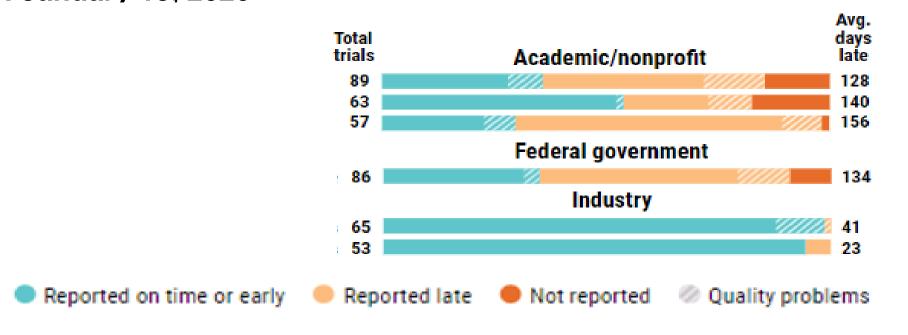
- Reputational risk with the public now seeing the number and type of comments
- Institutions are now more aligned to produce high-quality results

Keyes, et. al, JAMA Intern Med. October 2019 Zarin, Invited Commentary. The Culture of Trial Results Reporting at Academic Medical Centers



Science Magazine

FDA and NIH let clinical trial sponsors keep results secret and break the law Pillar C: January 13, 2020



https://www.sciencemag.org/news/2020/01/fda-and-nih-let-clinical-trial-sponsors-keep-results-secret-and-break-law



Lancet

Compliance with legal requirement to report clinical trial results on ClinicalTrials.gov: a cohort study Devito NJ, Bacon S, Goldacre B: January 17, 2020

- Only 2686/4209 (63.8%) reported results
- Only 1722/4209 (40.9%) reported results on time
 - Industry (50.3%)
 - Non-Industry (33.8%)
 - US Government (31.4%)

https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(19)33220-9/fulltext



Office of the Inspector General

OIG did an audit of 72 NIH funded clinical trials from 2019 and 2020.

Table: Summary of Clinical Trials Requiring Results To Be Submitted in 2019 or 2020				
	Intramural	Extramural	Total	
Submitted on Time	20	15	35	
Submitted Late	11	1	12	
Results Not Submitted	5	20	25	
Subtotal of Noncompliance	16	21	37	
Total	36	36	72	

https://www.jdsupra.com/legalnews/oig-auditfinds-lack-of-compliance-with-9190431/



US Government Accountability Office

- 16-18% of NIH-funded clinical trials were registered late in the public database ClinicalTrials.gov
- about half of NIH-funded clinical trials submitted results on time to the database in calendar years 2019 and 2020 due to insufficient monitoring and enforcement by NIH



https://www.gao.gov/products/gao-23-105656



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FDAAA TrialsTracker

Who's sharing their clinical trial results?

FDAAA 2007 is a law that requires certain clinical trials to report results. After a long wait, it effectively came into force for all trials due after January 2018. The FDA are not publicly tracking compliance. So we are, here.

	Trials reported 13174	out of 17257 أ	Percent reported 76.3%	Ê	US Govt could have imposed fines of at least \$46,920,219,7		nes claimed by US Govt	
Filt	er trials by status:							
0	n Overdue Or	Overdue (cancelled results)	Off Ongoing Off	Reported On Reported (late)				
[University of Rocheste	2F						
	1↓ Status 1	↓ Sponsor	$^↓$ Trial ID $^↓$	Title			$\uparrow\downarrow$ Completion date $\uparrow\uparrow$	Days overdue
	reported-late	University of Rochester	NCT04606134	A Single Center, Prospective, Blinded S When Used With Er:YAG Hybrid Laser	Study to Evaluate the Efficacy and Safety of a Tripe for the Treatment of Acne Scars	eptide/Hexapeptide Topica	al 2021-06-18	31
	reported-late	University of Rochester	NCT02559505	Understanding How the Initial Encount	er With Influenza Virus Poises Children for Protect	ive Immunity [pACT]	2020-07-03	33
	reported-late	University of Rochester	NCT02466009	Regorafenib in Adults 70 Years or Olde	er With Metastatic Colorectal Cancer: A Phase II St	udy [pACT]	2019-07-31	222
	reported-late	University of Rochester	NCT04342130	Brain Effects of Opiate Agonist and Ant	tagonist		2019-04-16	152
	reported-late	University of Rochester	NCT02168842	Phase 3 Double-blind Placebo-controll With Early Parkinson Disease [pACT]	led Parallel Group Study of Isradipine as a Disease	Modifying Agent in Subje	2018-11-30	6

Single trials

Ranked sponsors

FAQ

Blog

Your role

- Use public site to look up studies
- Help PI determine if study needs to be registered
 - Contact PRS administrator
- Complete study registration
- Work with PI to ensure results reporting
 - PRS administrator can help or enter results for them to review



Institutional Support

- Located in the CTSI in the Office of Regulatory Support (ORS)
- ORS Director, Joan Adamo, PhD
- Institutional PRS administrator
 - Carrie Dykes, PhD
 - Help you determine is registration is required
 - Help you get study record information entered (outcome measure writing)
 - Help you keep the record up-to-date
 - Help you work with PI to get results entered on time
- Monthly emails



Communication Process

Email	PI/Record Owner	Division or Department Director	Institutional Official/Dean
Stage #1	\checkmark		
Stage #2	\checkmark	\checkmark	
Stage #3	\checkmark	\checkmark	\checkmark



Decision Tree

- 1. Does the study involve human participants?
- 2. Are the participants prospectively assigned to an intervention?
- 3. Is the study designed to evaluate the effect of the intervention on the participants?
- 4. Is the effect being evaluated a health-related biomedical or behavioral outcome?



The study involves the recruitment of research participants who are randomized to receive one of two approved drugs. It is designed to compare the effects of the drugs on the blood level of a protein.

Does the study involve human participants? Yes, the study involves human participants.

Are the participants prospectively assigned to an intervention? Yes, the participants are prospectively assigned to receive an intervention, one of two drugs.

Is the study designed to evaluate the effect of the intervention on the participants? Yes, the study is designed to evaluate the effect of the drugs on the level of the protein in the participants' blood.

Is the effect being evaluated a health-related biomedical or behavioral outcome? Yes, the effect being evaluated, the level of a protein, is a health-related biomedical outcome.

•This study is a clinical trial by FDAAA, NIH and journals.



The study involves the recruitment of research participants with disease X to test an investigational in vitro diagnostic device (IVD). It is designed to evaluate the ability of the device to measure the level of an antibody in blood.

Does the study involve human participants? Yes, the study involves human participants.

Are the participants prospectively assigned to an intervention? Yes, device

Is the study designed to evaluate the effect of the intervention on the participants? Yes

Is the effect being evaluated a health-related biomedical or behavioral outcome? No, in this context the IVD would not be considered an intervention. The IVD is being used to test its ability to measure antibody levels, but not to test its effects on any health-related biomedical or behavioral outcomes.

This study is NOT a clinical trial, it is observational.



The study involves the recruitment of research participants with disease X to be evaluated with an investigational in vitro diagnostic device (IVD). The study is designed to evaluate how knowledge of certain antibody levels impacts clinical management of disease.

Does the study involve human participants? Yes

Are the participants prospectively assigned to an intervention? Yes, measurement of an antibody level, with the idea that knowledge of that antibody level might affect clinical management

Is the study designed to evaluate the effect of the intervention on the participants? Yes, the study is designed to evaluate how knowledge of the level of an antibody might inform treatment.

Is the effect being evaluated a health-related biomedical or behavioral outcome? Yes, the effect being measured, how blood antibody levels inform treatment, is a health-related outcome.

This study is a clinical trial, by FDAAA, NIH and journals.



The study involves the recruitment of research participants with a behavioral condition to receive either an investigational behavioral intervention or a behavioral intervention in clinical use. It is designed to evaluate the effectiveness of the investigational intervention compared to the intervention in clinical use in reducing the severity of the obsessive compulsive disorder.

Does the study involve human participants? Yes Are the participants prospectively assigned to an intervention? Yes Is the study designed to evaluate the effect of the intervention on the participants? Yes, behavioral intervention Is the effect being evaluated a health-related biomedical or behavioral outcome? Yes, OCD.

It is a clinical trials for NIH and journals but not FDAAA.



The study involves the recruitment of research participants with disease X vs. healthy controls and comparing these participants on a range of health processes and outcomes including genomics, biospecimens, self-report measures, etc. to explore differences that may be relevant to the development of disease X.

Does the study involve human participants? Yes Are the participants prospectively assigned to an intervention? No Is the study designed to evaluate the effect of the intervention on the participants? Is the effect being evaluated a health-related biomedical or behavioral outcome?

This is not a clinical trial for FDAAA, NIH or journals. Observational



Definitions

Defining Terms:

• Aims/Objectives

• Endpoints/Outcome Measures

Regulatory Definitions:

• Primary, secondary, and exploratory Outcome Measures



Objectives

<u>Primary</u> Objectives of a Clinical Trial:

- Drive statistical planning (e.g., sample size calculation / statistical power).
 - Are goals expressed as a statement of purpose (e.g., to assess; to determine; to compare; to evaluate).
- Describe:
 - General purpose (e.g., efficacy, effectiveness, safety).
 - <u>or</u>
- Specific purpose (e.g., dose-response, superiority to placebo, effect of an intervention on disease incidence, disease severity, or health behavior).

<u>Secondary</u> Objectives of a Clinical Trial:

Are goal that will provide further information on use of the intervention.

Source: NIH Protocol Templates for Clinical Trials https://grants.nih.gov/policy/clinical-trials/protocol-template.htm



Primary Outcome Measures



Primary Outcome Measures:

A specific measurement or observation to assess the effect of the study intervention.

- Corresponds to the study objective and hypotheses
- Basis for concluding whether the study met its objective

Precisely define the endpoints used to address the study's primary objective:

- lab tests
- clinical or psychological assessments
- patient reported outcomes, behaviors or health outcomes

Include time points at which data will be assessed

Examples:

- Change in Pain Severity Scores as Measured by the Brief Pain Inventory (BPI)
- Post-op Normative Isokinetic Knee Extension Strength

Note: "Endpoint" and "outcome measure" are synonymous.



Secondary Outcome Measures: NIH Definition

point of view. **Definition** [dɛfi'n signification of a we essential to the cor

Secondary Outcome Measures / Endpoints:

Address goals of secondary objectives.

May be related to efficacy and/or safety.

May provide supportive information about the intervention's effect on the primary endpoint or demonstrate additional effects on the disease or condition.

Secondary Objectives and Secondary Outcome Measures/Endpoints are written in the same manner as primary objectives and primary outcome measures/endpoints.

Examples:

- Number of participants that refuse treatment
- Hip Disability and Osteoarthritis Outcome Score
- Patient-Reported Satisfaction with Coordination of Care

Source: NIH Protocol Templates for Clinical Trials https://grants.nih.gov/policy/clinical-trials/protocol-template.htm



Exploratory / Other Outcome Measures



ClinicalTrials.gov "Any other measurements used to evaluate the intervention."

- Must be pre-specified in the protocol.
- Have fewer obligations than Primary and Secondary outcome measures.
 - Results reporting not required.
- Have no impact on:
 - Primary Completion Date;
 - Study Completion Date;
 - Results due dates;
 - Informed Consent upload due date (45CFR46 "Common Rule" requirement)

Ensure exploratory or other outcome measures are **clearly delineated in the protocol document**. If not clearly specified, the regulations will consider it a secondary outcome measure for which results reporting is required. (42 CFR 11.48(a)(5))



Aims/Objectives May Differ from Outcome Measures

Aims/Objectives:	Outcome Measures
Serve as deliverables. They involve <u>intent to do</u> <u>something</u> with data derived from outcome measures.	Primary outcome measures are the most important data <u>measurements</u> gathered by the study, the ones that determine its design and the study size.
Are typically expressed with verbs.	Outcome measures are measurements expressed in quantifiable units (with <u>nouns</u>).
E.g., <u>To assess</u> the efficacy of the STOMP intervention to improve opioid risk understanding and decision-making	E.g., <u>Number</u> of opioid-related adverse events



Outcome Measures: QC Criteria

Outcome measures frequently attract QC comments. Often, this is due to:

- Misunderstanding the differences between outcome measures and protocol aims
- Inappropriately combining outcomes

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• Failing to sufficiently describe the measurement to meet QC criteria

	Example of a	Example of	Example of an		
	protocol aim:	inappropriately combined measures	acceptable Outcome Measure:		This Outcome
How would you report meaningful data for this in a data table?	"Safety of Drug A"	Safety assessed via number of SAEs and maximum tolerated dose.	"Safety, as measured by the number of participants with at least one SAE"		Measure is a measurable, reportable outcome!
		Number of SAEs and maximu tolerated dose are separate measures			
				Į	

Descriptions Should be Thorough, Precise, and Understandable to the Public



Jnacceptable Outcome Measure

'Satisfaction with exercise program" "The satisfaction of participants with their assigned exercise program"



Acceptable Outcome Measure

"Satisfaction with Exercise Program"

 "Participant's satisfaction with their assigned exercise program as assessed using a 5-point Likert scale. Scores range from "very unsatisfied" (1) to "very satisfied" (5)."



Jnacceptable Outcome Measure

'To Determine Physical Function" , "The primary outcome is to determine if the surgery improves physical function in patients."



Acceptable Outcome Measure

'Change in Physical Function as assed via WOMAC Scores"

• "The Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC) assesses pain, stiffness, and physical function in patients with hip and / or knee osteoarthritis. Possible scores range from 0-96. Total score is computed by summing three subscales: pain (range 0-20), stiffness (range 0-8), and functional limitations (range 0-68), then dividing by total points possible. Higher scores indicate worse pain, stiffness, and functional limitations."





Outcome Measure QC Comments-Scales

QC Comment:	How to address: Make sure the Outcome Measure description includes the following information about the		
"Major Issue: The Measure includes a scale. Please provide the following scale information"	 scale/score: The full name of the scale (not just the abbreviation) What it measures Minimum/maximum possible scores What do higher or lower scores represent? Are higher scores better or worse, and is there a "normal" range? TEMPLATE: The [FULL NAME OF THE SCORE/SCALE] measures [WHAT IT MEASURES]. Possible scores range from [MINIMUM POSSIBLE SCORE] to [MAXIMUM POSSIBLE SCORE], with higher scores indicating a [BETTER/WORSE] outcome. 		
Unacceptable Outcome Measure	 <u>Title</u>: "Depression" <u>Description</u>: "Ham-D scores." 		
Acceptable Outcome Measure	 <u>Title</u>: "Severity of Depression as Measured by the Hamilton Depression Rating Scale" <u>Description</u>: "The Hamilton Depression Rating Scale (Ham-D) is used for rating the severity of depression symptoms. Possible scores range from 0 to 50, with higher scores indicating greater severity of depression." 		



Outcome Measure QC Comments- More than one

QC Comment:	 How to address: Make sure that you are reporting distinct measurements/variables as a separate Outcome Measures. Measurements must use the same unit of measure to be grouped in an Outcome Measure. <u>Example</u>: If you are reporting "Food Intake", but your measurement specifies "Carbohydrates (grams)" and "Sodium (milligrams)", you must enter those as separate outcome measures because grams and milligrams are different units of measurement. Combining measures as a single score (e.g. "Count of participants with either X or Y)
"Major Issue: More than one outcome measure appears to be described."	
Unacceptable Outcome Measure	 Art versus Science. Refer to the protocol and the P.I.'s intention. <u>Outcome 1</u>: "Body composition" <u>Description</u>: "Body Mass Index (BMI) and Visceral Fat Index."
Acceptable Outcome Measures	 <u>Outcome 1</u>: "Body Mass Index (BMI)" <u>Description</u>: "Body Mass Index (BMI) is a person's weight in kilograms divided by the square of height in meters. Scores between 18.5 and 24.9 indicate healthy weight." <u>Outcome 2</u>: "Visceral Fat Index (VFI)" <u>Description</u>: "Visceral Fat Index (VFI) will be assessed using a CT scan. Scores range between 1 and 59. Scores between 1 and 12 indicate healthy levels of visceral fat. Scores of 13 and above indicate excessive, unhealthy levels of visceral fat." OR <u>Outcome 1</u>: "<u>Count of participants</u> with either a BMI of 25 or higher or a VFI of 13 or higher."



Outcome Measure QC Comments- Time Frame

QC Comment:

"Major Issue: The Time Frame does not appear to be specific and/or in the correct format."

How to address:

- Specify the (unabbreviated) **time points** when you collect data (Month 3, Day 5, up to 5 Minutes), **not the visit names** (Visit 2, Follow-up).
- If the measure is assessed in relation an event (e.g. "post surgery"), specify the time in relation to that event. Time frames such as "Post-intervention" will not be accepted.
 - Examples: "Baseline up to 1 hour post-surgery"; "Day 1, immediately prior to administration of the intervention".
- "Duration of study" is never acceptable.
 - If the time frame is intrinsically dependent on duration of participation, specify the maximum time frame over which the measure will be assessed,
 - **Example**: "Baseline up to 24 months or disease progression, whichever is first".
- If reporting **multiple time points**, add "Change in..." to the title (if reporting change between 2 time points) or specify "Up to [time point], or divide into separate outcomes

Unacceptable Outcome Measure Time Frames:

- "Duration of study"
- "D1, D14, D30"
- "Duration of participation"
- "Hospitalization"
- "Hospital admission until discharge"

Acceptable Outcome Measure Time Frames:

45

- "Week 2"
- "Baseline, 6 Weeks" (Title = "Change in...")
- "Day 1, Day 14, Day 30"

- "Up to 100 Weeks"
- "Day 1 up to 20 minutes post surgery"



Time to Event Outcome Measure Descriptions

	COMMONLY USED OUTCOME MEASURE DESCRIPTIONS
Overall Survival (OS)	Number of days/weeks/months until death from any cause
	Time Frame: Baseline until death, assessed up to [#] days/weeks/months
Progression-Free Survival (PFS)	Number of days/weeks/months until disease progression or death
	Time Frame: Baseline until date of first observed disease progression or death, assessed up to [#] days/weeks/months
Event-Free Survival (EFS)	Number of days/weeks/months until disease progression, death or discontinuation of treatment for any reason (ie: toxicity, patient preference or physician decision)
	Time Frame: Baseline until death/discontinuation/progression, up to [#] days/weeks/months
Objective Response Rate (ORR)	Percentage of participants with x% reduction in tumor burden.
	Time Frame: Up to Day/Week/Month [#]
Duration of Response (DoR)	Number of days/weeks/months from documented tumor response to disease progression
	Time Frame: Date of response until progression, assessed up to [#] days/weeks/months



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Research Help Desk

researchhelp@urmc.Rochester.edu

585-275-2107

