

831458 – Trials@Home

Center of Excellence – Remote Decentralised Clinical Trials

WP2 - TECH

D2.1 - Glossary of terms and definitions used

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Publishable Summary

This document reports the processes used to develop a glossary of terms and definitions used within WP2 (task 2.1.1). The consortium agreed to expand the WP2 glossary to a project-level glossary since a common language should be established not only within but also across work packages. The aim of the glossary is to establish a common language within the project and to aid understanding of key terms that will feature in project outputs. The glossary itself, presented in the document, may be updated during the Trials@Home project so that important new terms can be added, obsolete terms removed, or existing terms updated to significant new insights. This approach has been chosen to reflect the fast-changing remote decentralised clinical trial landscape. The current version of the glossary can also be found online.

Methods

To create a glossary of terms and definitions used within the Trials@Home project (hereafter simply called “glossary”), we employed a variety of methods for information gathering, concept extraction and definition, conflict management, and glossary validation and quality control.

For the creation and conception of the glossary, a workgroup was formed comprising members of work packages 1-5, 2 members per work package: one from the EFPIA side, and one from the public side. This workgroup then set out to find suitable concepts related to remote decentralised clinical trials (RDCTs) for inclusion in the glossary. Furthermore, they convened on a weekly basis to discuss and ameliorate results. A more thorough discussion on these processes is provided below.

Information gathering

By “information gathering”, we mean the process of finding information sources that potentially contained concepts that were potentially relevant to the Trials@Home project. It is the first step towards exploring the landscape of terms that are commonly used in discussing remote decentralised clinical trials.

We first employed crowdsourcing among the project partners, asking all partners involved in the creation of the glossary to provide concepts that, in their opinion, belonged in the glossary. We also asked project partners to identify information on other glossaries or source material that cover similar topics, i.e. remote decentralised clinical trials (RDCTs), or clinical trials in general. Concurrently, we performed a literature scan on sources that address RDCTs, clinical trials with telehealth, or clinical trials with parts that are remote, or include site visits.

Concept extraction and definition

Concept extraction and definition is the process of identifying concepts relevant to the field of RDCT and extracting them to allow representation in a structured form.

After analysing the results of the information-gathering phase, and identifying terms used in the Trials@Home project proposal, each member of the glossary workgroup tried to match suggested glossary concepts with definitions found in existing glossaries and publications, and, where available, selected a suitable, existing definition.

The results of concept extraction and definition were entered into a standardised Excel database structure, which was reviewed by all contributors. Furthermore, the data was open to all project partners in the consortium, and all could propose comments / amendments. Table 1 shows the information recorded for potential glossary concepts.

Table 1: Captured for potential glossary concepts

Field name	Description
Concept (context)	The concept to be defined in the glossary. For some concepts, a context is specified between brackets to demarcate the definition of the concept
Acronym / Abbreviation	The common acronym or abbreviation of the concept, if any
Definition	A definition of the concept. This is where the main definition is stated

Reference / Regulation	Identifier for the information source in which this concept was found and defined (if definition is not novel)
Synonyms	Concepts that are considered synonyms to the current concept

Conflict management

Concepts and definitions to be included in the glossary, dubbed “main terms”, and other terms designated as synonyms for these, were agreed using a conflict management process. Conflict management was performed by the workgroup on a “majority rules” basis. The workgroup discussed modifications and comments on a weekly basis and all members of the workgroup present in the conference call voted on proposed actions and changes (minimum of 3).

Validation and quality control

After development of a stable first draft, this version was then forwarded to the Executive Board (ExBo), after which ExBo members then presented it to the project partners in their respective work packages. All project partners were given the opportunity to propose changes if they were in substantial disagreement with the presented concepts and definitions. Any partners proposing changes were required to provide an alternative definition. These definitions were then assessed using described conflict management processes, after which a first version of the glossary was finalised.

Results

Adaptive trial design

Original source: [FDA](#)ⁱ

A clinical trial design that allows for prospectively planned modifications to one or more aspects of the design based on accumulating data from subjects in the trial.

Auxiliary medicinal product

Original source: [CTR](#)ⁱⁱ

Abbreviation: AMP

A medicinal product used for the needs of a clinical trial as described in the protocol, but not as an investigational medicinal product (e.g., rescue medication, challenge agents, medicinal products used to assess clinical trial end-points, or medicinal products used for background treatment).

Basic building block

Abbreviation: BBB

See "Trial building block".

Big data

Original source: [OED](#)ⁱⁱⁱ

Data of a very large size, typically to the extent that its manipulation and management present significant logistical challenges; (also) the branch of computing involving such data.

Central monitoring (of data)

Original source: [ICH GCP](#)^{iv}

A remote evaluation of accumulating data, performed in a timely manner, supported by appropriately qualified and trained persons (e.g., data managers, biostatisticians). See also Remote Site Monitoring and Remote Source Data Verification.

Clinical study

Original source: [CTR](#)ⁱⁱ

Abbreviation: CS

Any investigation in relation to humans intended:

- (a) to discover or verify the clinical, pharmacological or other pharmacodynamic effects of one or more medicinal products;
- (b) to identify any adverse reactions to one or more medicinal products; or
- (c) to study the absorption, distribution, metabolism and excretion of one or more medicinal products; with the objective of ascertaining the safety and/or efficacy of those medicinal products.

Clinical trial (interventional)

Original source: [CTR](#)ⁱⁱ

Abbreviation: CT

A clinical study which fulfils any of the following conditions:

- (a) the assignment of the subject to a particular therapeutic strategy is decided in advance and does not fall within normal clinical practice of the Member State concerned;
- (b) the decision to prescribe the investigational medicinal products is taken together with the decision to include the subject in the clinical study; or
- (c) diagnostic or monitoring procedures in addition to normal clinical practice are applied to the subjects.

Controller (of data)

Original source: [GDPR](#)^v

The natural or legal person, public authority, agency, or other body which alone, or jointly with others, determines the purposes and means of the processing of personal data

Data consent

Original source: [GDPR](#)^v

Any freely given, specific, informed, and unambiguous indication of the data subject's wishes by which he or she, by a statement or by a clear affirmative action, signifies agreement to the processing of personal data relating to him or her.

Digital biomarker

Original source: [Digital Biomarkers](#)^{vi}

Objective, quantifiable physiological and behavioural data that are collected and measured by means of digital devices such as portables, wearables, implantables or ingestibles.

Digital trial

Original Source: [Steinhubl et al., 2019](#)^{vii}

A trial that uses digital technologies (such as electronic data, mobile communications, sensors, and devices).

Direct-to-participant (IMP delivery)

Abbreviation: DTP

Trials@Home

Any method of IMP delivery directly to a trial participant. Two strategies are common: site-to-participant IMP delivery and depot-to-participant IMP delivery; each requires different regulatory approaches.

Electronic case report form

Original Source: [FDA](#)^{viii}

Abbreviation: eCRF

An auditable electronic record of information that generally is reported to the sponsor on each trial subject, according to a clinical investigation protocol. The eCRF enables clinical investigation data to be systematically captured, reviewed, managed, stored, analysed, and reported.

Electronic clinical outcome assessment

Original Source: [FDA](#)^{ix}

Abbreviation: eCOA

An electronically collected clinical outcome assessment is a measure that describes or reflects how a patient feels, functions, or survives.

Electronic consent

Original Source: [TransCelerate^x](#)

Abbreviation: eConsent

eConsent includes multimedia components which can be used to develop an interactive and engaging informed consent experience, offering flexibility for diverse learning styles (e.g., auditory, visual).

Electronic health

Original source: [WHO^{xi}](#)

Abbreviation: e-Health, eHealth

Activities that use electronic means to deliver health-related information, resources, and services: it is the use of information and communication technologies (ICT) for health.

Electronic participant reported outcome

Abbreviation: ePRO

See “Electronic Patient Reported Outcome”. An ePRO used to collect data entered actively by participants in a clinical trial.

Electronic patient reported outcome

Adapted from: [FDA^{xii}](#).

Abbreviation: ePRO

An outcome that is measured using electronic data supplied actively and directly by a patient. Examples include online or tablet-based questionnaires collecting quality of life or symptom data.

External stakeholder platform (Trials@Home)

Trials@Home

Abbreviation: ESP

A consultation group that is actively involved in the Trials@Home project. It consists of representatives from relevant stakeholder groups and expertise fields to provide expert views, insights and knowledge about RDCT approaches. They also serve as ambassadors of the project.

Health technology assessment

Original source: [WHO^{xiii}](#)

Abbreviation: HTA

The systematic evaluation of the properties and effects of a health technology, addressing the direct intended effects of this technology, as well as its indirect unintended consequences, and aimed mainly at informing decision-making regarding health technologies.

Home trial support

Original Source: [MRN^{xiv}](#)

Services required to allow the conduct of trial activities in a participant’s home instead of at a trial site. May include home nursing (IMP administration, phlebotomy and other sample collection, physiological observations, etc.) as well as supportive logistics and pharmacy.

Hybrid trial

Trials@Home

Trial model that involves both remote/decentralised and traditional site based trial elements.

Informed consent (trial participation)

Abbreviation: ICF

See “Study consent”.

Investigational medicinal product

Original source: [Clinical Trials Directive 2001/20/EC^{xvii}](#)

Abbreviation: IMP

A pharmaceutical form of an active substance or placebo being tested or used as a reference in a clinical trial, including products already with a marketing authorization but used or assembled (formulated or packaged) in a way different from the authorised form, or when used for an unauthorised indication, or when used to gain further information about the authorised form.

Mobile health

Original source: [WHO](#)^{xvi}

Abbreviation: m-Health, mHealth

Medical and public health practice supported by mobile devices, such as mobile phones, patient monitoring devices, personal digital assistants, and other wireless devices.

Non-investigational medicinal product

Abbreviation: Non-IMP, NIMP

See "Auxiliary medicinal product".

Patient

Original Source: [Oxford English Dictionary](#)^{xvii}

A person receiving or registered to receive medical treatment or (para)medical care. This is not a preferred term in Trials@Home when referring to a trial participant.

Participant

Trials@Home

A person taking part in a clinical trial. This term is preferred within Trials@Home.

Patient-centric trial design

Trials@Home

A study design principle where the needs and wishes of the patient are considered as much as possible.

Person (or patient) identifiable data

Abbreviation: PID

See "Personal data".

Personal data

Original source: [GDPR](#)^v

Any information relating to an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person.

Personalised medicine

Original source: [IMI ADAPT/SMART](#)^{xviii}

Medicine that is targeted to individual patients or stratified population of patients with specific characteristics. Personalised medicine can also be interpreted more narrowly to mean targeted treatment according to genetic variations only or to mean a unique treatment for the individual patient rather than groups of patients.

Processor

Original source: [GDPR](#)^v

A natural or legal person, public authority, agency or other body that processes personal data on behalf of the controller.

Pseudonymisation

Original source: [GDPR](#)^v

The processing of personal data in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information, provided that such additional

information is kept separately and is subject to technical and organisational measures to ensure that the personal data are not attributed to an identified or identifiable natural person.

Randomisation and trial supply management

Adapted from: [Parexel](#)^{xix}

Abbreviation: RTSM

Comprehensive solution that manages randomisation and clinical trial supplies in complex studies. Advanced version of Randomisation and Trial Supply Management systems commonly known as Interactive Voice Response Systems (IVRS), Interactive Web Response Systems (IWRS), and Interactive Responsive Technology (IRT).

Real world data

Adapted from: [IMI GetReal](#)^{xx}

Abbreviation: RWD

Data collected in a manner that reflects how interventions would be used in routine clinical practice or secondary research data derived from routinely collected data.

Real world evidence

Adapted from: [IMI GetReal](#)^{xx}

Abbreviation: RWE

Results derived from the analysis and/or synthesis of real-world data.

Remote decentralised clinical trials

Trials@Home, [Deliverable 1.1](#)^{xxi}

Abbreviation: RDCT

Clinical Trials that make use of digital innovations and other related methods to make them more accessible to participants. By moving clinical trial activities to the participant's home or to other local settings this minimises or eliminates physical visits to a clinical trial centre. NB the term remote decentralised trial includes hybrid trials that use only limited remote methods in combination with more conventional site-based methods as well as fully "virtual" or "digital" trials where there may be no direct interaction between study personnel and participants.

Remote site monitoring

Source: [Clinical Research News](#)^{xxii}

Abbreviation: RSM

Review of trial documentation and drug accountability by clinical trial Monitors using digital platforms and without physically visiting a research site. This may also be referred to as virtual trial monitoring.

Remote source data verification

Source: [Clinical Research News](#)^{xxii}

Abbreviation: rSDV

Review of source data by clinical trial Monitors using digital platforms. May include review of digital copies of paper-based materials, or direct review of electronic source data such as electronic records.

Scientific advisory board

Trials@Home

Abbreviation: SAB

A selective group of stakeholders that will review the trial and project design and is not involved in the shaping of outputs. It consists of independent, sovereign thought leaders in the field of RDCTs who serve in a private capacity. The SAB will provide a scientific review of the project and will report this back to the IMI in a formal report.

Siteless trial

See "Remote decentralised clinical trial (RDCT)".

Study consent

Original source: [CTR](#)ⁱⁱ

A subject's free and voluntary expression of his or her willingness to participate in a particular clinical trial, after having been informed of all aspects of the clinical trial that are relevant to the subject's decision to participate or, in case of minors and of incapacitated subjects, an authorisation or agreement from their legally designated representative to include them in the clinical trial.

Subject

Original Source: [FDA](#)^{xxiii}

An individual who participates in a clinical trial either as a recipient of the investigational product(s) or as a control. The term “subject” is part of the federal regulation and may be used interchangeably with participant in some situations. This is not a preferred term within Trials@Home.

Telemedicine

Original source: [WHO](#)^{xxiv}

The delivery of health care services, where distance is a critical factor, by all health care professionals using information and communication technologies for the exchange of valid information for diagnosis, treatment and prevention of disease and injuries, research and evaluation, and for the continuing education of health care providers, all in the interests of advancing the health of individuals and their communities.

Trial building block

Trials@Home

A framework developed for use in the Trials@Home project to facilitate the mapping of the set of related and coordinated services and solutions that supports one or more activities within a clinical trial across site-based, hybrid and fully RDCT.

Trial site

Adapted from: [ICH GCP](#)^{xxv}

The location(s) where trial-related activities are conducted. This would typically be a healthcare or research facility in a non-RDCT.

Wearables

Original source: [OED](#)^{xxvi}

Portable devices, especially those incorporating microprocessor technology, designed to be worn on one's person to collect, store and/or transmit healthcare data in real-time.

Discussion

The glossary published in this document is only the latest version in its life cycle. It was decided by the consortium that the glossary should be a living document, where terms get added or deleted as work progresses in the project, new insights are gained, and our conceptual understanding of RDCTs, as well as its position in the landscape and future of clinical trials, matures. As such, new versions of this document with new concepts and definitions, as well as possible modifications of glossary methodology, will appear in the future on a yearly basis.

Although supplied to IMI as a deliverable document in accordance to their terms, the primary publishing method of the glossary will be the Trials@Home website (www.trialsathome.com), where it will be published as an online standard. In this context, online standard means a) that the glossary is available online on the website and b) that all defined concepts in the glossary are linked to from other pages on the website (e.g, as is done in Wikipedia), where possible.

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