

Why innovate and bring clinical trials home?

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Disclosure Mira Zuidgeest

| Potentiële belangenverstrengeling | Zie hieronder |
|--|---|
| Voor bijeenkomst mogelijk relevante relaties met bedrijven | Geen |
| Sponsoring of onderzoeksgeld Honorarium of andere (financiële) vergoeding | IMI funding, zie disclaimer hiernaast geen |
| AandeelhouderAndere relatie, namelijk | N.v.t.GetReal Institute Board Member |

Disclaimer

The research leading to these results was conducted as part of the Trials@Home consortium. This presentation only reflects the personal view of the stated authors and neither IMI nor the European Union, EFPIA, or any Associated Partners are responsible for any use that may be made of the information contained herein.

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Trials@Home project

The aim

Provide recommendations on Decentralised Clinical Trials (DCT) approaches in Europe

Project start September 1, 2019, due to end November 30, 2025

The consortium







What are Decentralised Clinical Trial (DCT) approaches?



"operational model in which trial activities are designed to take place at or in the vicinity of the participant's home"

"rather than at a traditional clinical site"





"This approach may make use of technologies and other innovative operational approaches to facilitate data collection"

Santa-Ana-Tellez et al. Decentralised, patient-centric, site-less, virtual, and digital clinical trials? From confusion to consensus. https://doi.org/10.1016/j.drudis.2023.103520

- Not a methodology
- Can be fully decentralised or hybrid
- Can be steered towards pragmatic or towards explanatory methodology
- Better recruitment and retention?
- Lower participant and site burden?
- Lower costs?
- RWE opportunities:
 - More representative study population?
 - Less interference with routine clinical practice?





Recommendations on decentralised elements in CTs

From European Medicines Regulatory Network, Published Dec 14, 2022 on Eudralex Vol. 10

DCT Recommendation paper

Direction of EMRN harmonisation

- 1. Introduction, scope, general considerations
- 2. Clinical trial oversight: roles & responsibilities
- 3. Informed consent process
- 4. Delivery of medicinal products & administration at home
- 5. Trial related procedures at home
- Data collection and management incl. defining & handling source data
- 7. Trial monitoring



RECOMMENDATION PAPER ON DECENTRALISED ELEMENTS IN CLINICAL TRIALS: Published Dec 14th 2022 on Eudralex Vol. 10

National provisions overview

Member state specific provisions, where national legislation does not currently allow for alignment



Stakeholder views & preferences

Interviews regulators

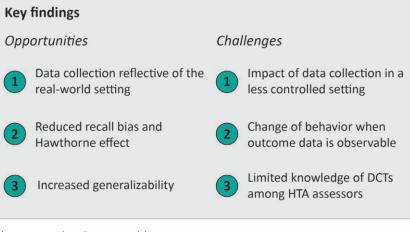


de Jong *et al.* Clin Pharma Therapeutics 2022. doi: 10.1002/cpt.2628

@HOME



Interviews HTA



de Jong *et al.* Value in Health 2024. doi: 10.1016/j.jval.2023.11.006

Focus groups ECs/NCAs

Social value & scientific validity

Favourable B/R ratio & respect for subjects

6

Informed consent

Fair subject selection

Van Rijssel *et al.* Drug Discov Today 2022. doi: 10.1016/j.drudis.2022.07.011

Do people prefer to participate in a clinical trial from home or not?

Patient preference study

- Step 1: focus groups to identify drivers
- Step 2: Discrete Choice Experiment (DCE) to quantify preferences

Characteristics:

- People with DM2
- DE, AT, NL

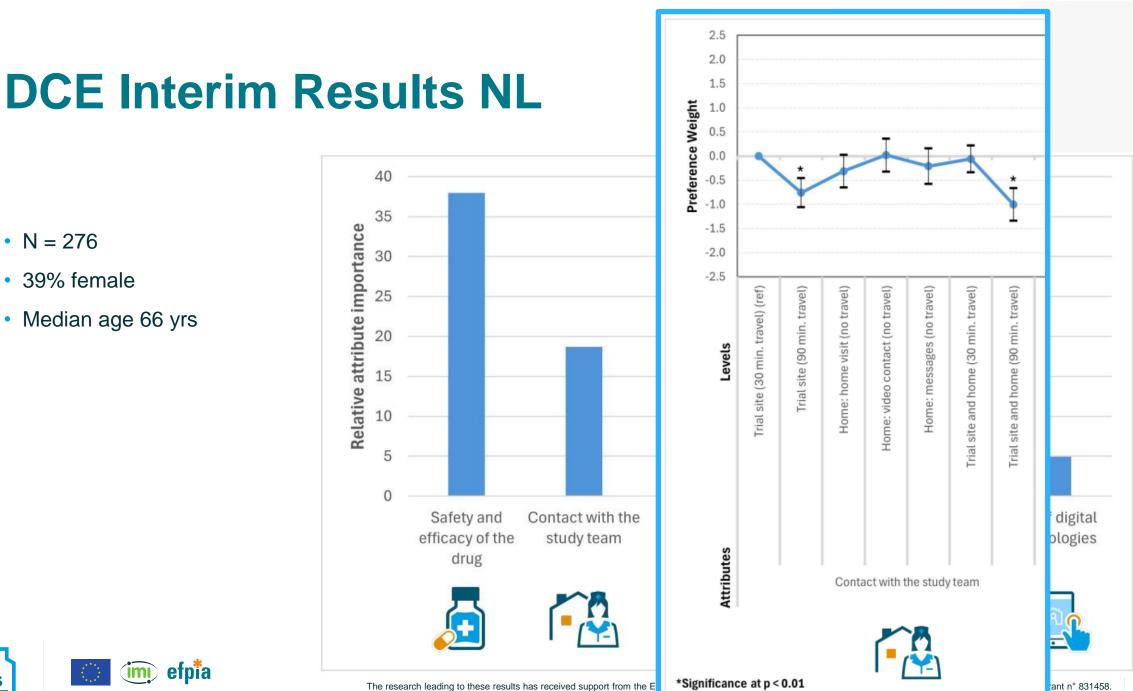
Status:

- Focus groups finalised
- DCE recruitment finished ~800 participants, analysis ongoing

etpia







- N = 276
- 39% female
- Median age 66 yrs

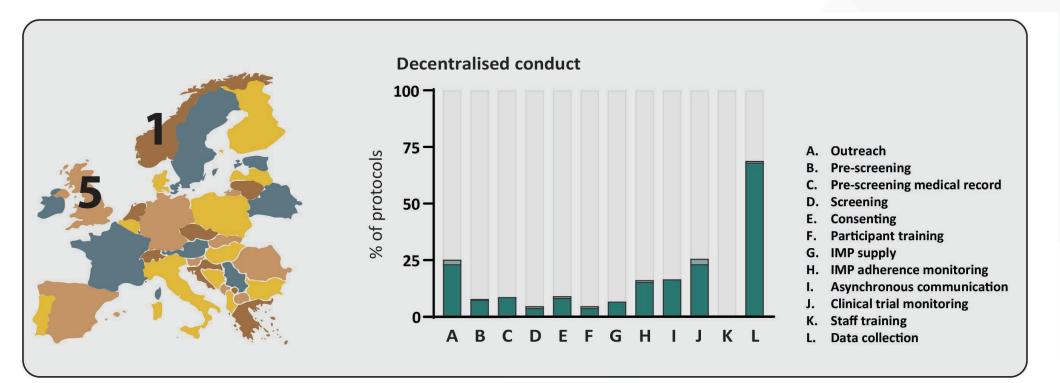


Relative attribute importance

Current landscape & DCT elements

- Limited full DCTs have been conducted in Europe
- > DCT elements are being used in clinical trials

DCT approaches are a continuum



Rogers et al. Br J Clin Pharmacol 2022. doi: 10.1111/bcp.15205

🚫 🍈 efpta

de Jong et al. BMJ Open 2022. doi: 10.1136/bmjopen-2022-063236

RADIAL PROOF-OF-CONCEPT STUDY

Aim: To assess the scientific and operational quality of a fully decentralised and hybrid trial approach compared to a conventional trial approach

efpia

(imi)

Approved proof-ofconcept study

> Methodological objective: KPIs as main outcomes

Low intervention phase IV trial

Compound® used within market authorization label Population familiar with insulin use

People with DM2 treated with basal insulin with HbA1c 7-10%

Explore <u>potential benefits:</u> participant retention, recruitment, diversity, cost, site & patient satisfaction

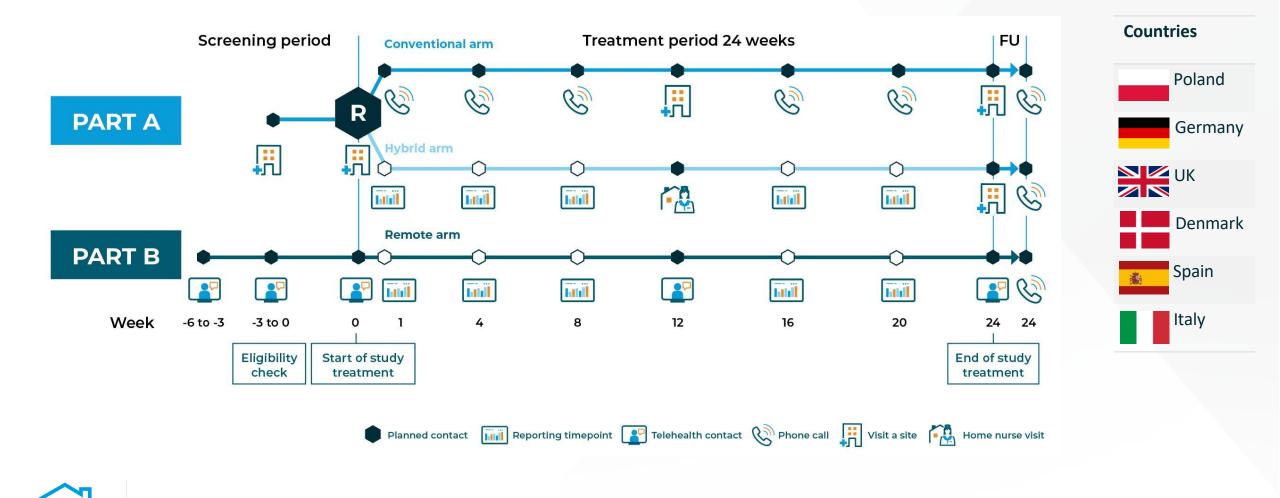
Evaluate <u>acceptability:</u>

safety oversight, data quality & treatment adherence

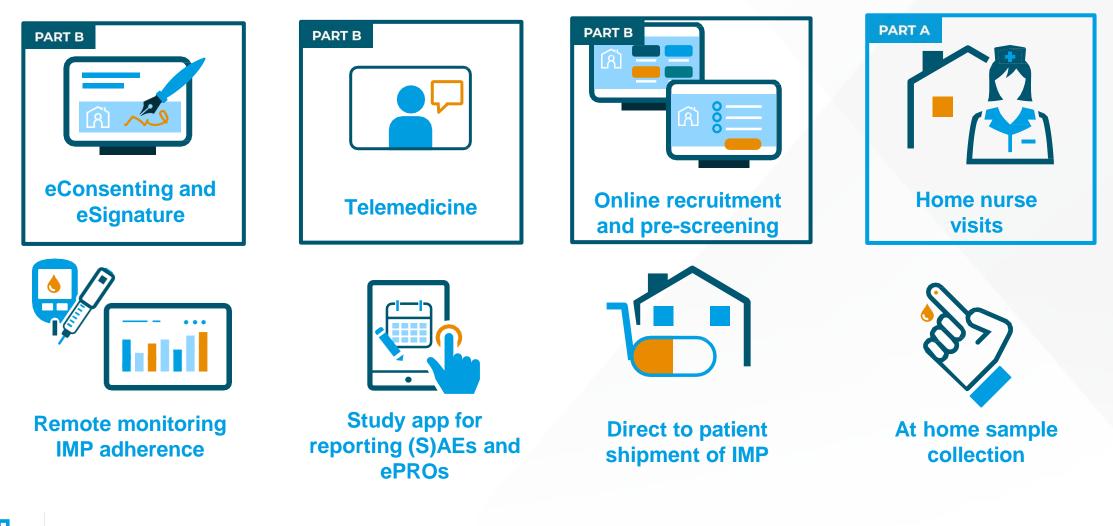
Set-up of RADIAL proof-of-concept study

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TRIALS



Decentralised elements in RADIAL



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TRIALS

RADIAL part B consent - Participant Experience

Clinpal eConsent solution with Qualified Electronic Signature

Informing (watch, read, quiz, check willingness to proceed)



For a transcript of the video, click here.

This form will give you more information about participating in the RADIAL study. The form will help you decide whether or not you would like to take part in the study. In this form you will learn:





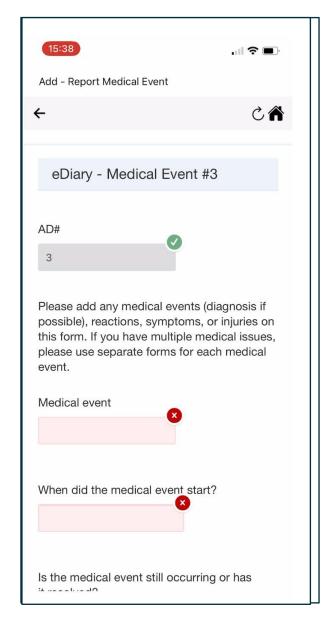


Consultation (video call with site)



Signature (opt-ins, identity, signing, download)





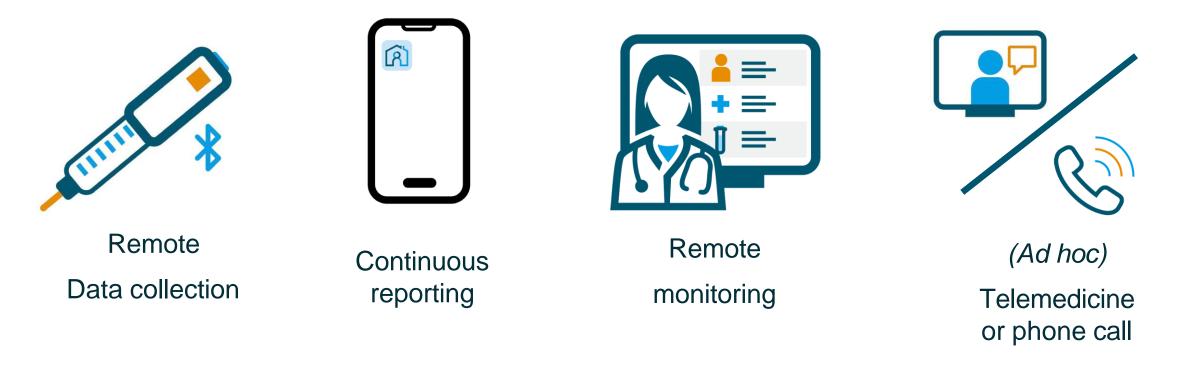
Reporting of Medical events by Participant

• Based on 'The Yellow card' application to report side effects - IMI WEB-RADR



How to maintain oversight when participants are remote?

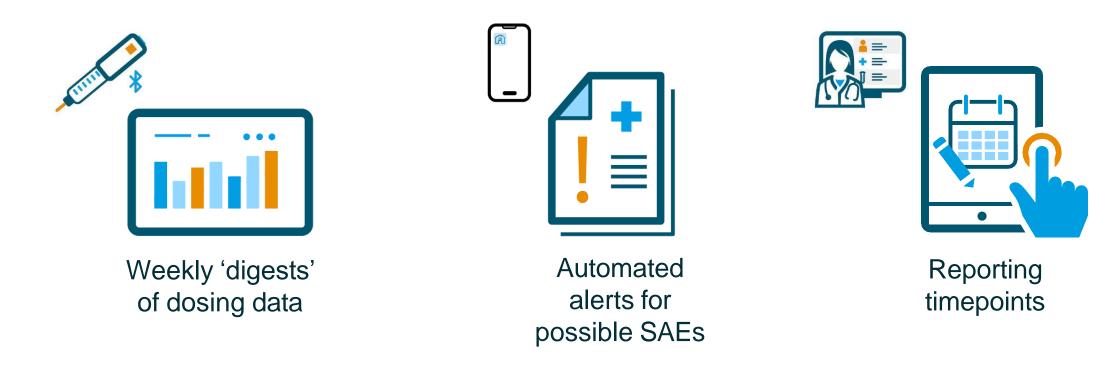
 In decentralised/hybrid arm, the investigator has access to tools to maintain oversight – even though the participant does not physically visit the site.





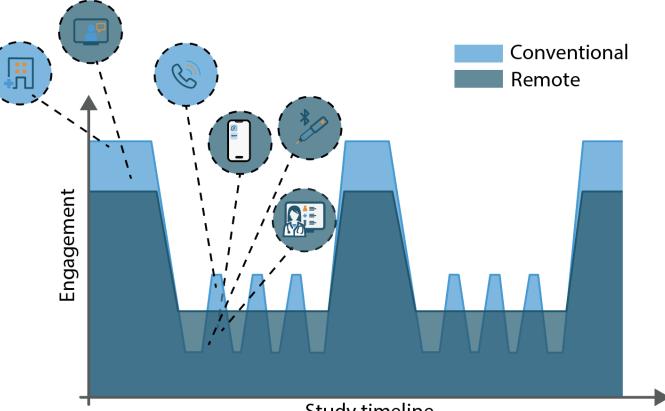
A remote site, a 24/7 clinical trial site?

- We cannot expect real-time review and follow-up on collected data and reports
- Risk-based approach
- Expectation management (for both site and participant)



Investigator oversight in a DCT (RADIAL)

- In a conventional trial, the participant is most of the time 'remote' (<u>not at the clinical</u> <u>trial site)</u>.
- Using (novel) technology the remote participant can be brought 'closer' to the investigator



Study timeline



DtP IMP delivery in RADIAL

> Br J Clin Pharmacol. 2023 Dec;89(12):3512-3522. doi: 10.1111/bcp.15850. Epub 2023 Jul 29.

Direct-to-participant investigational medicinal product supply in clinical trials in Europe: Exploring the experiences of sponsors, site staff and couriers

Amos J de Jong ¹, Yared Santa-Ana-Tellez ¹, Mira G P Zuidgeest ², Renske J Grupstra ¹, Fatemeh Jami ³, Anthonius de Boer ^{1 4}, Helga Gardarsdottir ^{1 5 6}; Trials@Home Consortium

Affiliations + expand

PMID: 37438875 DOI: 10.1111/bcp.15850



 For torpant
 Image: Constraint of IMP (DtP)

 Image: Constraint shipment of IMP (DtP)
 E clear on what you're talking about → 4 models with difference in acceptance in different countries:

 Image: Constraint shipment of IMP (DtP)
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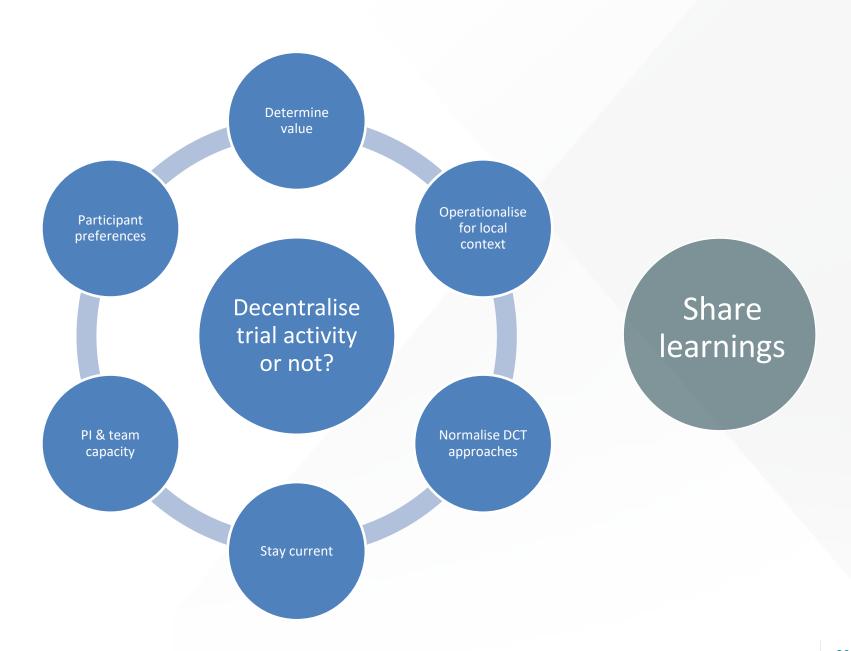
 Image: Constraint shipment of IMP (DtP)
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Linking DCT approaches to other innovations

| Real W Evide | | Real World Data | | | Novel clinical endpoints | |
|-----------------------------|------|--------------------------|-----|--|-----------------------------|--|
| Weara | bles | Technological innovation | | | Data science | |
| Decentralisation of care | | | Etc | | | |



Should we move trial activities to participants homes?





Thank you!

Further information on T@H and RADIAL:

| Project website | www.trialsathome.com |
|-----------------|-------------------------------|
| Contact us at | trialsathome@umcutrecht.nl |
| Mira Zuidgeest | m.g.p.zuidgeest@umcutrecht.nl |

