Sean Kearns Research Nurse

## Recruitment and Retention in Clinical Trials



## Outline

Recruitment in Clinical Trials

Literature

Clinical Trials Transformation Initiative

Recruitment Planning

Initiatives to increase Recruitment

**Retention in Clinical Trials** 

Literature

Group Work

#### Recruitment

2015 Analysis of registered trials showed 19% were closed or ended early because of not enough participants

**86%** of clinical trials do not reach recruitment targets in their time periods.

This has implications scientifically, financially, policy-wise and even ethically







Some of the literature ...

#### **BMC Medical Research** Methodology



Research article

**Open Acces** 

Resear

#### Increasing recruitment to randomised trials: a review of randomised controlled trials

Judith M Watson\* and David J Torgerson

Address: York Trials Unit, Department of Health Sciences, University of York, York, YO10 5DD, UK

Email: Judith M Watson\* - jmw19@york.ac.uk; David J Torgerson - djt6@york.ac.uk

\* Corresponding author

Published: 19 July 2006

BMC Medical Research Methodology 2006, 6:34 doi:10.1186/1471-2288-6-34

This article is available from: http://www.biomedcentral.com/1471-2288/6/34

Received: 31 March 2006 Accepted: 19 July 2006

**Open Access** 

#### **BMJ Open** Recruitment and retention of participants in randomised controlled trials: a review of trials funded and published by the United Kingdom **Health Technology Assessment Programme**

Stephen J Walters, Inês Bonacho dos Anjos Henriques-Cadby, Oscar Bortolami, Laura Flight, Daniel Hind, Richard M Jacques, Christopher Knox, Ben Nadin, Joanne Rothwell, Michael Surtees, Steven A Julious

**Open Access** Research

#### BMJ Open Detailed systematic analysis of recruitment strategies in randomised controlled trials in patients with an unscheduled admission to hospital

Ceri Rowlands,<sup>1</sup> Leila Rooshenas,<sup>1,2</sup> Katherine Fairhurst,<sup>1,2</sup> Jonathan Rees,<sup>2,3</sup> Carrol Gamble,<sup>4</sup> Jane M Blazeby<sup>1,2,3</sup>



**Cochrane** Database of Systematic Reviews

Strategies designed to help healthcare professionals to recruit participants to research studies (Review)

Preston NJ, Farquhar MC, Walshe CE, Stevinson C, Ewing G, Calman LA, Burden S, Brown Wilson C, Hopkinson JB, Todd C

Contemp Clin Trials. Author manuscript; available in PMC 2009 March 1

Published in final edited form as:

Contemp Clin Trials. 2008 March; 29(2): 241-251.

## Effectiveness of Recruitment in Clinical Trials: An Analysis of Methods Used in a Trial for Irritable Bowel Syndrome Patients

Siu Ping Chin Feman  $^1$ , Long T Nguyen  $^1$ , Mary T. Quilty  $^1$ , Catherine E. Kerr  $^1$ , Bong Hyu Nam  $^2$ , Lisa A Conboy  $^{1,3}$ , Joyce P. Singer  $^1$ , Min Park  $^1$ , Anthony Lembo  $^4$ , Ted J. Kaptchuk  $^{1,3}$ , and Roger B. Davis  $^{1,3}$ 

Contents lists available at ScienceDirect

## EI SEVIED

#### **Contemporary Clinical Trials**

journal homepage: www.elsevier.com/locate/conclintrial



Clinical trials recruitment planning: A proposed framework from the Clinical Trials Transformation Initiative



Grant D. Huang<sup>a,\*</sup>, Jonca Bull<sup>b</sup>, Kelly Johnston McKee<sup>c</sup>, Elizabeth Mahon<sup>d</sup>, Beth Harper<sup>e</sup>, Jamie N. Roberts<sup>f</sup>, for the CTTI Recruitment Project Team

- a Cooperative Studies Program, Office of Research & Development, U.S. Department of Veterans Affairs, 810 Vermont Ave NW, Washington, DC 20420, USA
- <sup>b</sup> PPDi, 929 North Front Street, Wilmington, NC 28401, USA
- <sup>c</sup> Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285, USA
- d Janssen Research & Development, 700 US Highway 202, Raritan, NJ 08869, USA
- <sup>e</sup> Association of Clinical Research Professionals, 99 Canal Center Plaza, Alexandria, VA 22314, USA
- f Duke University, 300 W. Morgan St., Durham, NC 27701, USA

Trials



Richards et al. Trials 2014, **15**:398 http://www.trialsjournal.com/content/15/1/398



Research

\* Corresponding author

**Open Access** 

#### What influences recruitment to randomised controlled trials? A review of trials funded by two UK funding agencies

Alison M McDonald\*<sup>1</sup>, Rosemary C Knight<sup>2</sup>, Marion K Campbell<sup>1</sup>, Vikki A Entwistle<sup>1</sup>, Adrian M Grant<sup>1</sup>, Jonathan A Cook<sup>1</sup>, Diana R Elbourne<sup>2</sup>, David Francis<sup>3</sup>, Jo Garcia<sup>2</sup>, Ian Roberts<sup>2</sup> and Claire Snowdon<sup>2</sup>

Address: <sup>1</sup>Health Services Research Unit, University of Aberdeen, Polwarth Building, Foresterhill, Aberdeen, UK, <sup>2</sup>Medical Statistics Unit, London School of Hygiene and Tropical Medicine, Keppel Street, London, UK and <sup>3</sup>Centre for Research and Innovation Management, Brighton

Email: Alison M McDonald\* - a.mcdonald@abdn.ac.uk; Rosemary C Knight - Rosemary.Knight@lshtm.ac.uk; Marion K Campbell - m.k.campbell@abdn.ac.uk; Vikki A Entwistle - V.A.Entwistle@dundee.ac.uk; Adrian M Grant - a.grant@abdn.ac.uk; Jonathan A Cook - j.a.cook@abdn.ac.uk; Diana R Elbourne - diana.elbourne@lshtm.ac.uk; David Francis - d.l.francis@brighton.ac.uk; Jo Garcia - j.garcia@ioe.ac.uk; lan Roberts - lan.Roberts@lshtm.ac.uk; Claire Snowdon - cms1000@cam.ac.uk

METHODOLOGY

Open Access

The DiReCT study - improving recruitment into clinical trials: a mixed methods study investigating the ethical acceptability, feasibility and recruitment yield of the cohort multiple randomised controlled trials design

David A Richards<sup>1\*</sup>, Sarah Ross<sup>1</sup>, Sarah Robens<sup>2</sup> and Gunilla Borglin<sup>3</sup>

## What do we know?



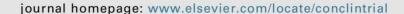
## Review of results from following paper ...

Contemporary Clinical Trials 66 (2018) 74-79



Contents lists available at ScienceDirect

#### **Contemporary Clinical Trials**





## Clinical trials recruitment planning: A proposed framework from the Clinical Trials Transformation Initiative



Grant D. Huang<sup>a,\*</sup>, Jonca Bull<sup>b</sup>, Kelly Johnston McKee<sup>c</sup>, Elizabeth Mahon<sup>d</sup>, Beth Harper<sup>e</sup>, Jamie N. Roberts<sup>f</sup>, for the CTTI Recruitment Project Team

a Cooperative Studies Program, Office of Research & Development, U.S. Department of Veterans Affairs, 810 Vermont Ave NW, Washington, DC 20420, USA

<sup>&</sup>lt;sup>b</sup> PPDi, 929 North Front Street, Wilmington, NC 28401, USA

<sup>&</sup>lt;sup>c</sup> Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285, USA

d Janssen Research & Development, 700 US Highway 202, Raritan, NJ 08869, USA

<sup>&</sup>lt;sup>e</sup> Association of Clinical Research Professionals, 99 Canal Center Plaza, Alexandria, VA 22314, USA

f Duke University, 300 W. Morgan St., Durham, NC 27701, USA

## Methodology











LITERATURE REVIEW

**SURVEY** 

PLANNING FRAMEWORK DESIGN **EXPERT MEETING** 

RECOMMENDATIONS

## Phase 1: Literature Review

- 46 Articles were included exploring the barriers and solutions to overcome recruitment challenges
- Limited Data
- Findings showed
- ➤ Open Label trials over Blinded
- ➤ Clear opt out procedures and language
- ➤ Telephone Reminders
- > Financial Incentives

## Lit review Barriers to Trial Recruitment

- Trial Design
- Study Staff Resources
- Recruitment Strategies Employed
- Targets and Timelines
- Patient Staff Communication
- Compensation/ Incentives
- Human Factor
- Processes, Policies and Resources

## Phase 2: Survey Results regarding BARRIERS

- Finding participants who meet eligibility criteria (81%)
- Insufficient Staff time (67%)
- Length or complexity of consent forms (66%)
- Protocol Requirements other that Inc/Exc (60%)
- Transport and out of pocket expenses for participants (56% and 67%)

## How do we combat these Barriers?

- Education of Patients, Physicians and Research Staff
- Implementation of Technology for screening erecords
- Community involvement and input in design, planning and dissemination – PPI
- Increase in Flexibility of Visits and consenting process
- Less Narrow Inc/Exc
- Decrease excess data needs

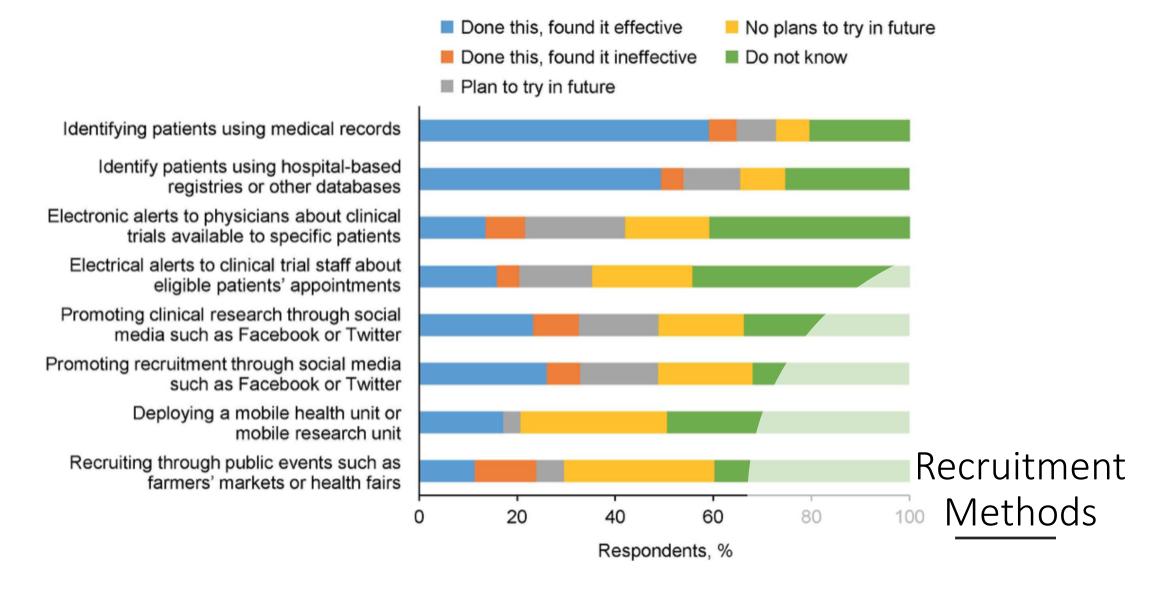


Figure 2. Respondents' organizations' experience with the named recruitment methods. N ranged from 86-88 for each method rated.

## Phase 3: Planning a Framework

- The research team at the CTTI formed a framework for strategic recruitment planning
- Addressing that Prevention is superior than reactionary work
- Earlier Planning is paramount
- Three themes
- 1. Trial Design and Protocol development
- 2. Trial Feasibility and Site Selection
- 3. Recruitment Communication and Planning

## Phase 4: Expert Panels

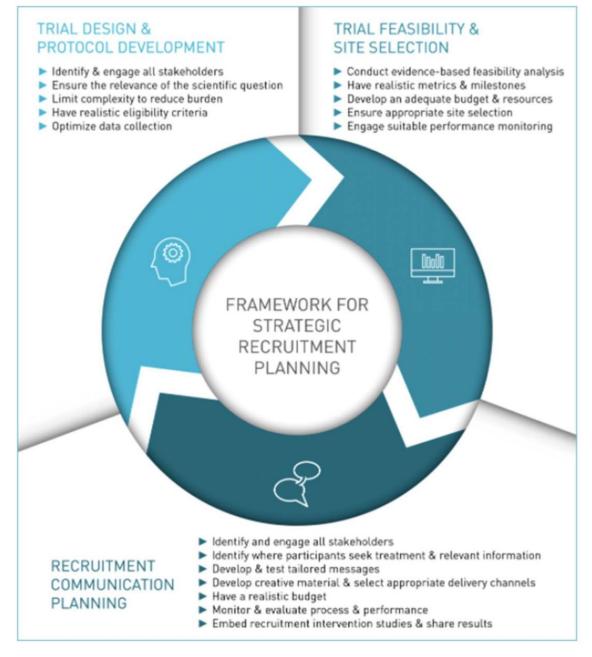
#### 60 Stakeholders

#### **Review and Provide Recommendations**

#### **Included:**

**Professional Service Organsiations** 

- Clinical Research Organisations
- Drug and Device Sponsors
- Patient Advocacy Groups
- Academics
- Research Staff
- Investigators



**Fig. 1.** CTTI Framework for Strategic Recruitment Planning.

## 1.) Trial Design and Protocol Development

Table 1
Recommendations for efficient and effective clinical trial recruitment planning.

Recommendation	Practical steps
Trial Design and Protocol Development	
Identify and engage all stakeholders as equal partners in the process	<ul> <li>Include as diverse a group of interested parties including patients, caregivers, patient groups, investigators, sponsors, funders, site staff, key opinion leaders, and providers.</li> </ul>
	<ul> <li>Incorporate their input and include appropriate partner representation on committees (e.g., advisory, steering, protocol writing).</li> </ul>
Ensure the relevance of the scientific question to stakeholders	<ul> <li>Determine the relevance of the scientific question and impact at trial conclusion (e.g., filling unmet need, relevance of outcomes to patients, generalizability).</li> </ul>
Limit protocol complexity to reduce the burden of participation	<ul> <li>Reduce procedures to those directly related to the scientific question.</li> <li>Consider invasiveness and risks.</li> </ul>
	Limit activities that create additional work for sites and patients.
Develop realistic eligibility criteria	<ul> <li>Identify and eliminate items that are not necessary for ensuring safety of participants.</li> </ul>
	<ul> <li>Eliminate items that are not directly relevant to answering the primary research question.</li> </ul>
Optimize data collection to only what's necessary to maintain patient safety and answer the scientific question	<ul> <li>Collect only the data necessary to maintain participant safety and/or address the primary and secondary objectives.</li> </ul>

## 2.) Trial Feasibility and Selection

Trial Feasibility and Site Selection Conduct an evidence-based trial feasibility analysis

Establish realistic metrics and milestones

Develop an adequate budget and resources

Ensure appropriate site selection

Engage in suitable site performance monitoring

- Do an environmental scan or SWOT (strengths, weaknesses, opportunities, threats) analysis. Targets
  may include competition, policy, seasonal fluctuations, awareness, disease stage and rarity,
  satisfaction with current therapies, and economic concerns.
- Incorporate site activation, screening, and enrollment factors.
- Map out anticipated events to identify potential pitfalls and bottlenecks in setting expectations.
- Use historic and benchmarked data to estimate realistic timelines.
- Develop an initial recruitment budget that accounts for appropriate factors and appropriate patient outreach.
- Emphasize site activation timelines and realistic enrollment periods in resource determination.
- Develop an ideal site profile that includes investigator experience, site capabilities, site infrastructure, institutional resources, and target population access.
- Develop a plan to regularly meet with sites.
- Schedule timely teleconferences/meetings to discuss recruitment successes and challenges.
- · Create a short survey for persons offered enrollment but who decline to participate.
- Ask sites what they need to support efficient and effective recruitment.

## 3.) Recruitment Communication Planning

Recruitment Communication Planning

Identify all stakeholders and partners

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

Develop and test tailored messages

Develop creative material and select appropriate channels for delivery

Develop a realistic communication budget

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

- · Identify and include stakeholders who are critical to study communication.
- Identify potential participant pathways into the study so that barriers and bottlenecks may be addressed while the protocol is in development.
- Develop messages on key points related to the study (e.g., reason for study, importance, value) for study participants, research staff and providers.
- Develop creative material and identify channels for reaching audiences.
- Conduct formative research such as focus groups, social listening exercises, and semi-structured interviews.
- · Plan the budget early to ensure that recruitment costs are anticipated and covered.
- Ensure a well-researched communication strategy is deployed in order to achieve efficient and effective communication and outreach efforts.
- Develop a method for successful recruitment performance monitoring and evaluation:
- 1. Securing stakeholder buy-in.
- Define measurable recruitment goals.
- 3. Identify meaningful metrics for each goal.
- 4. Define success for each metric.
- 5. Identify the required data for each metric.
- 6. Collect process and performance data.
- 7. Analyze the data.
- Consider embedding recruitment intervention studies into clinical trials and share the results (good and bad)

## Recruitment Plan

- Who are my patient population?
- Who is going to be involved in recruitment?
- Where will I be recruiting?
- Who can I train that can help?
- Is recruitment competitive?
- Is anyone else working on this trial nationally?

## Recruitment Methods

Database trawl. Chart review. Specialist nurses. New Referrals. GP referral. Patient organisation. Charities. Self Referral. Specialist units.

Social Media

## Pre Screening – Database or Chart

- Disease status
- Compare patient data with Inc/ Exc
- Medical/Surgical History
- Trial History / Trial Status
- Medications
- Mental Health History
- Drug/Substance Abuse
- Compliance
- Logistics
- Social Situations

LOOKS GOOD:
GET IN TOUCH

## Initial Contact

Discuss patient with P.I and or CNS

Provide General Trial Information

Answer any follow up Q's

Be Explicit that it is optional

Provide PIL

Allow time to discuss

If possible do this in person

## Pre – Screening log

 Keep track of all the patients that you prescreen

- Accountability to sponsor
- Shows trends
- May guide protocol amendments
- May identify gaps

#### **Screening and Enrollment Log**

Patient Name	Telephone Pre-Screen Date	Potentially Eligible?	Screenin g Visit Date	Study ID Number	Consented/Enrolled?	Eligibility*	Staff Initial:
		Yes			Yes No	☐ Screen Failure, Reason:	
		No		5-	Date:	□ Eligible	
		Yes No			Yes No	☐ Screen Failure, Reason:	
					Date:	□ Eligible	
		Yes			Yes No	☐ Screen Failure, Reason:	
		No			Date:	□ Eligible	
		Yes			Yes No	☐ Screen Failure, Reason:	
	Yes No			Date:	□ Eligible		
				Yes No	☐ Screen Failure, Reason:		
					Date:	□ Eligible	

## **GDPR**



## Recruitment Places

Newspaper

Television

Radio

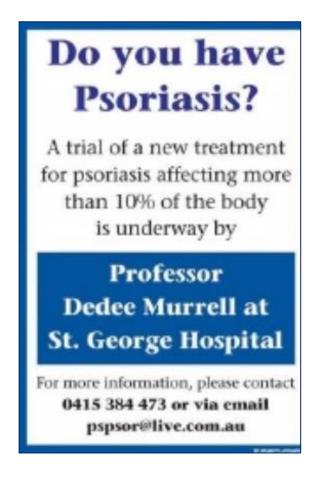
Poster

Leaflets

Internet

Social media

## Think about Design and Intention



The PAREXEL Clinical Pharmacology Unit, located at Harbor Hospital in Baltimore is currently seeking Volunteers to participate in a clinical research study to evaluate a new Investigational medication for Psoriasis, a disorder which affects the skin and joints.

## RESEARCH STUDY PSORIASIS VOLUNTEERS NEEDED

We are recruiting the following populations:

- Males
- Females not able to bear children.
- Have chronic Plaque Psoriasis over 3% of your body.
- Ages 18 65.
- Weigh between 88 lbs and 308 lbs.



The study involves one screening visit, one in-house stay of 1 night and 14 outpatient visits. If you qualify and complete that study you may receive up to \$3760.00 in compensation.

For more information, please visit our website www.baltimoretrials.com, or contact us toll free at **1-800-797-2448** (Monday to Friday between 9AM and 5PM).

Good tools for design

VISME

99 DESIGNS

IN HOUSE HOSPITAL DESIGNER

PATIENTS THEMSELVES

PATIENT GROUPS

CONTACT ME

## Business Cards



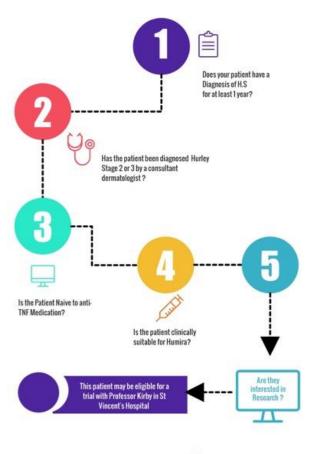
- Do you have Psoriasis?
- 2 Do you have Eczema?
- 3 Do you have Hidradenitis Suppurativa?
- Are you free from Skin Disease?

Interested in research contact Research Nurses: Sean Kearns, 01-221 3024 crc@ucd.ie



# Eligibility for Physicians





It you think they may be suitable and interested.
please contact Dermatology Research Nurse UCD CRC.
Sean Kearns or Kate Coveny
call: 01-2213024 or email: crc@ucd.ie





## Recruitment Reflection





HOW ARE MY DROP OUT RATES?

WHY ARE PEOPLE DROPPING OUT?



WHAT CAN I DO TO COMBAT THIS?

# METHODS TO IMPROVE RECRUITMENT

## SVUH Registry for Trials



Home > Research > Clinical Trials

#### **Clinical Trials**



Do you want to contribute to on-going medical research? Are you interested in helping to evaluate new treatments or tests to improve patient outcomes?

St. Vincent's University Hospital is at the forefront of cutting edge clinical research in Ireland and internationally. As a large academic teaching hospital, we strive to advance medical care for all of our patients by supporting high quality clinical research apportunities. In conjunction with our partners in LCD, which will ultimately

#### Research

- > Clinical Trials
- > Clinical Trials Search
- Our Research Centres
- Our Research Groups
- Research and Laboratory Facilities



#### BUR02

This study aims to establish the long-term safety and tolerability profile of Burosumab in the treatment of adults with XLH and to provide continued treatment for subjects previously enrolled in UX023-CL303 and UX023-CL304 clinical trials.

Status: Open Recruiting

#### **Omics Study of Psoriasis and Atopic Dermatitis**

Psoriasis and atopic Dermatitis are inflammatory skin diseases. With this research study we hope that we will be able to understand the mechanism of these skin diseases in patients and determine the key factors in the body which may cause the progression of the disease by comparing healthy subjects against subjects with either psoriasis or atopic dermatitis

Status: Open Recruiting

#### The TOPaz Study

This study aims to investigate if a two year spell of treatment with a drug call Teriparatide, followed by one dose of treatment called Zoledronic Acid can reduce the risk of broken bones (fractures) in Osteogenesis Imperfecta (brittle bone disease). We are comparing this treatment with the usual treatment that patients with OI normally receive.

Status: Open Recruiting

#### Usage of Omics Technology for Identification of Critical Mediators and Pathways in Patients with Hidradenitis Suppurativa (HS)

Hidradenitis suppurativa is an inflammatory skin disease affecting approximately 1% of the population and Adalimumab (Humira) is a medication that has been licenced for the treatment of patients with HS. We are trying to further understand how Humira works in HS. We hope to determine the factors in the body which may cause improvements for the disease with Humirea treatments

Status: Open Recruiting



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For Patients For Visitors For GPs Our Departments Our Consultants Our Clinics

Home > Research > Clinical Trials > Clinical Trials Search

> Usage of Omics Technology for Identification of Critical Mediators and Pathways in Patients with Hidradenitis Suppurativa (HS)

#### Usage of Omics Technology for Identification of Critical Mediators and Pathways in Patients with Hidradenitis Suppurativa (HS)

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#### **ELIGIBILITY CRITERIA**

If you are over 18 years old and have a diagnosis of H.S. You will be seen by a dermatologist and if clinically suitable for Humira then a member of the research team will work with you on the remaining inclusion criteria.

Therapeutic Area	Dermatology
Type of Study	Clinical Trial
Study Status	Open Recruiting
Sponsor	U.C.D. and via a strategic partnership with Science Foundation Ireland and Abbvie
Principal Investigator	Professor Brian Kirby
Contact	<u>Sean.kearns@ucd.ie</u>

#### Research

- > Clinical Trials
- > Clinical Trials Search

Q

- Our Research Centres
- Our Research Groups
- Research and Laboratory Facilities

View more Clinical Trials



### Reaffirmation



### Newsletters



#### **TOPaZ Newsletter** May 2019



Thank you all very much for your continuing support of the TOPaZ clinical trial

Amazing month for TOPaZ recruiting 11 participants!

May 6th was Wishbone Day – an international awareness-raising day for Osteogenesis Imperfecta and we wish the OI community all the very best in all the activities that took place this week. If you would like to find out more please visit http://www.wishboneday.com/

Substantial Amendment 6 implementation date has been postponed as the majority of sites requested additional time to review. We will be in touch with sites when the amendment is due to go live with all the information required.

Please also note the safety announcement from Ranbaxy (UK) Ltd attached to the newsletter email regarding an incorrect PIL sent in a batch of Zoledronic acid.

Update

Recruitment to date: 130



Recruitment

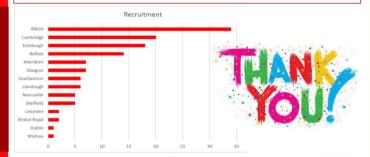
- Well done to Dr Rachel Crowley and Laura Feeney at St Vincent's University Hospital, Dublin for recruiting your first participant last month!
- Once again thank you to Judith, Richard, Deirdre and the team at RNOH for continuing to rapidly recruit and have now recruited way over 30!
- Also congratulations to Ken, Tracey and the team at Cambridge for surpassing Edinburgh and reached 20 recruits last month!

Thank you all for your hard work!

**Contact Information** Email: topaz.trial@ed.ac.uk Website:

Phone: 00 44 (0) 131 651 9915

Twitter: @TOPaZ\_Trial Address: Edinburgh Clinical Trials Unit, Usher Institute, University of Edinburgh, Level 2, Nine Edinburgh BioQuarter, Edinburgh, EH16 4UX









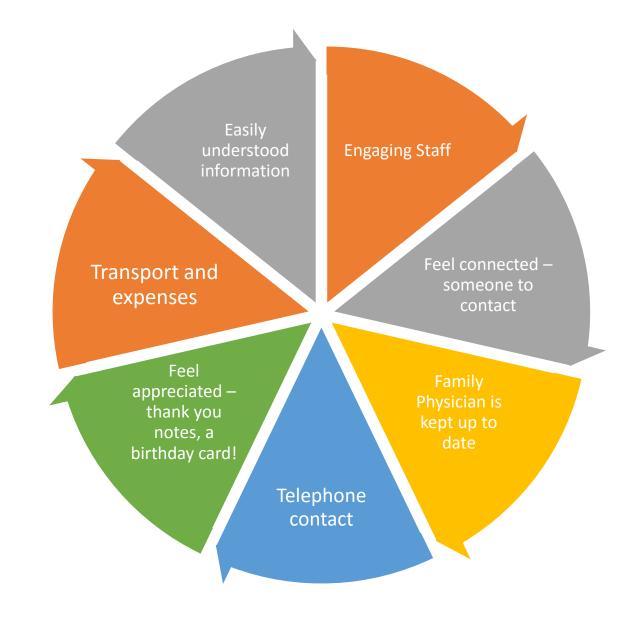
NHS National Institute for Health Research

## Lanyards

## Lanyards with Inc/Exc



What do subjects want?



## Group Discussion and feedback

## Group Work

• What are some novel or unique things you've done or seen in Clinical Research?

• Was it effective?

Why?

Could you apply it to your area?



Sean Kearns Research Nurse

# Retention in Clinical Trials

#### Retention

Retention of participants is a major challenge and a key methodological priority

Poor reporting persists as a challenge. On average 6-11% of participants will withdraw or be lost to follow up

Statistical analysis is employed to account for these challenges

### Review of results from following paper ...

Kearney et al. Trials (2017) 18:406 DOI 10.1186/s13063-017-2132-z

**Trials** 

RESEARCH

**Open Access** 

## Identifying research priorities for effective retention strategies in clinical trials



Anna Kearney<sup>1\*</sup>, Anne Daykin<sup>2</sup>, Alison R. G. Shaw<sup>2</sup>, Athene J. Lane<sup>2</sup>, Jane M. Blazeby<sup>2</sup>, Mike Clarke<sup>3</sup>, Paula Williamson<sup>4</sup> and Carrol Gamble<sup>1</sup>

## Missing Data

**Table 1** Current causes of missing data within the cohort of Health Technology Assessment Programme (HTA)-funded trials

Causes of missing data	Number of trials (%) $n = 49^a$
Patients withdrawing	41 (84%)
Losing contact with patients	30 (61%)
Patients not returning questionnaire	24 (49%)
Patient deaths	23 (47%)
Clinicians withdrawing patients	17 (35%)
Patients not attending a visit/clinic	14 (29%)
Missed measurement by clinical staff	12 (25%)
Patient outcomes other than death preventing measurement, e.g. coma, too ill to complete measures	10 (20%)
Data not provided by clinical staff	10 (20%)
Other	6 (12%)
Technology problems	4 (8%)
Laboratory problems	2 (4%)

Survey respondents chose all causes of missing data observed in their trial. One person did not complete the question

#### TOP 5 TIPS

**Table 2** Top five recommended practices to mitigate missing data recommended by chief investigators

Retention strategy	Number of respondents (%) $n = 50$
Monitoring (procedures, methods and systems for monitoring data return and following up outstanding data)	25 (50%)
Good site relationship/regular contact with sites to ensure buy in	15 (30%)
Site training (initiation training and triggered training)	11 (22%)
Multiple methods of data collection	10 (20%)
Well-chosen measures and outcomes	6 (12%)

See Additional file 3: Table S7 for complete list of recommend practices

## Patient Information leaflets: a comparison





#### RESEARCH ARTICLE

## Reducing attrition within clinical trials: The communication of retention and withdrawal within patient information leaflets

Anna Kearney 1\*, Anna Rosala-Hallas², Naomi Bacon², Anne Daykin³, Alison R. G. Shaw³, Athene J. Lane³, Jane M. Blazeby³, Mike Clarke⁴, Paula R. Williamson¹, Carrol Gamble¹

1 North West Hub for Trials Methodology Research/ Clinical Trial Research Centre, Biostatistics, University of Liverpool, Liverpool, United Kingdom, 2 Clinical Trial Research Centre, Biostatistics, University of Liverpool, Liverpool, United Kingdom, 3 ConDuCT-II Hub for Trials Methodology Research, University of Bristol, Bristol, United Kingdom, 4 Centre for Public Health, Queen's University of Belfast, Belfast, United Kingdom



<sup>\*</sup> a.kearney@liv.ac.uk.

#### Findings:

98% of PIL state that you can withdraw from the trial

90% say that you can withdraw at any time, with no penalty and don't have to give a reason

12% stated that we may ask you to give a reason to help us understand

16% included information around the value of retention

6% included information around equipoise

#### Variance from Protocol to PIL

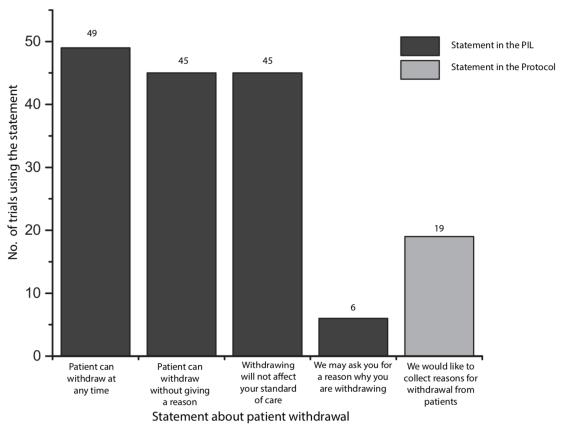
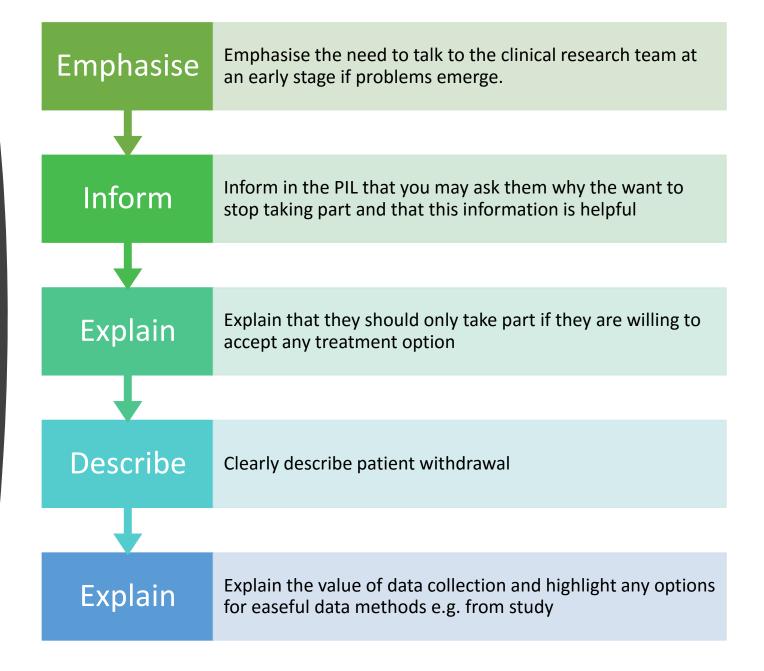


Fig 3. Frequency of communication about patient withdrawal within PIL and protocols (n = 50).

Evaluation of PIL's (Recommendations)



### **Group Work - Retention**

• What are some novel or unique things you've done or seen in Clinical Research?

• Was it effective ?

Why?

Could you apply it to your area?



#### Conclusions



Recruitment and Retention are priority issues in clinical research



Massive deficits still exist with only marginal improvements in last decade



Literature is scarce



Planning is paramount in both



We need to utilize our teams and each other



Be create, be innovative, be evidence based and where possible – access your own methods



• As active recruiters in this area:

- Look to how we can document recruitment in our fields
- How can we test improvements
- How can we evaluate these
- Can we publish our findings and improve peer reviewed knowledge?