

First in Man
Now you know what, but do you know how?

Joris Bannenberg Factory CRO 14 juni 2017



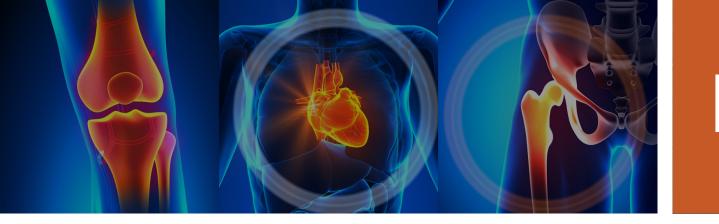
First in Man - Do you know how?

A First in Man;

Do you know how?







First in Man

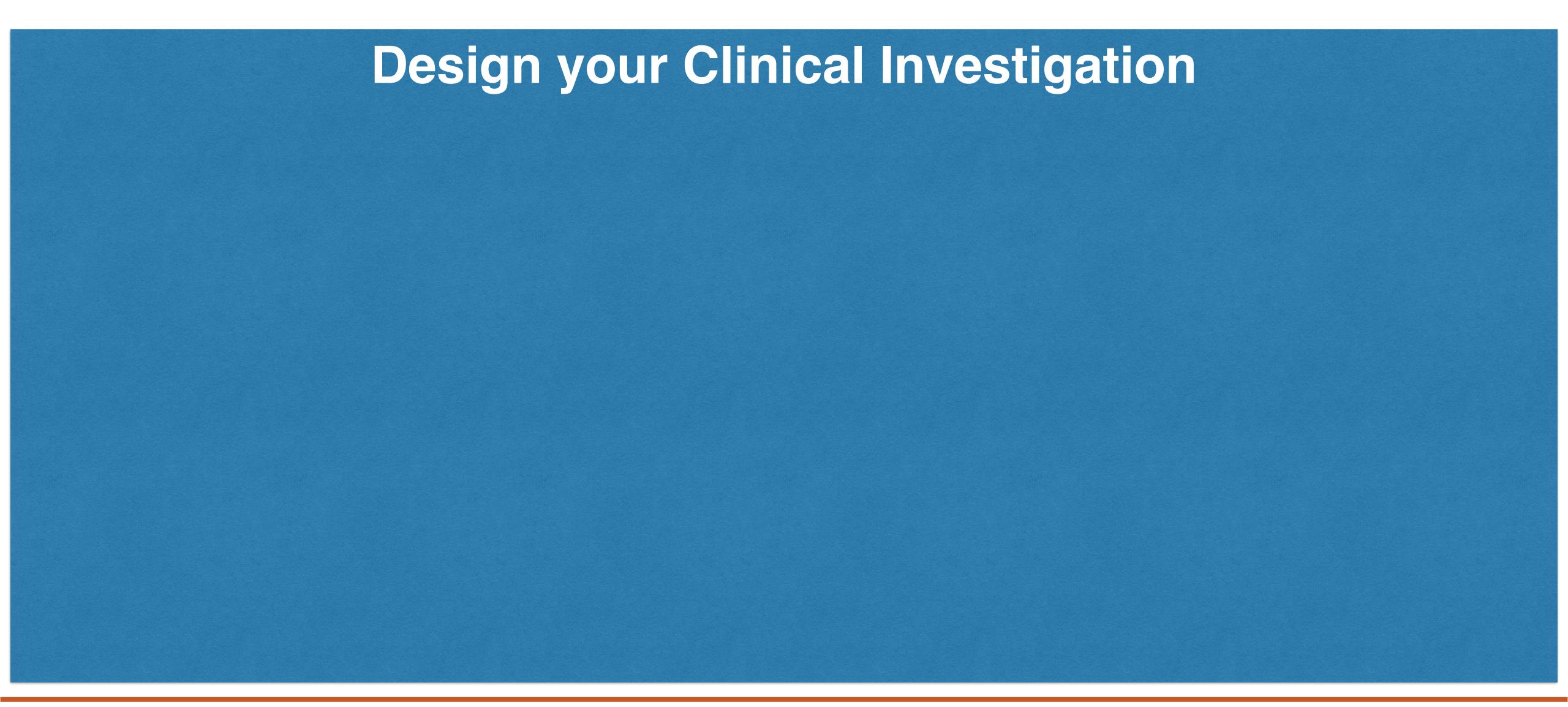
How to do it?

Study Design Considerations

Process overview NL, GER, UK

Research Landscape







Selection of your Investigators

Required Qualifications

Skill set of the Investigator (eg. the expert vs the novice)

Location (eg. does location matter?)

Is there already a standard of care?

The key opinion leader who is never in OR, or the less known investigator with experience?

Are you measuring the learning capacity of the investigator?

Are there local procedures that will impact your endpoints?
eg. insurance policies

SOC can differ per hospital
What is the impact of the new procedure on
the SOC



New devices, new procedure require training

Are you measuring the learning capacity of

the investigator?

Training of your Investigational sites

Learning Curve

Procedure Training (eg. roll-in patients)

Often not only one dept involved

Include all relevant dept.



Identification and enrollment of Subjects



Eg. Sportsmen vs Elderly

Safety first (you don't know what will happen)

What can they expect?



Monitoring

Monitoring

Monitoring of data vs monitoring of procedures

Frequency

What are you looking for?



Safety **Understand what to report Definitions** Who reports to whom? What to expect? Reporting **Independent review DSMB** What are you looking at? **Progress of diseases? Monitoring of subjects** Visit schedule



Expectations

Sponsor

Investigator

Subject

What do they expect from the Investigators?

What can they expect from the device etc?

Time to relieve? Potential Side effects?



External Challenges

Funding

New resources when certain milestones are accomplished

Insurance Companies

SIIC versus Coverage versus METC

Competing studies

Will my product make it to the market on time?



Common Mistakes

Data is biased

Poor design

Subject bias

Select correct outcome measures

Does my investigation answer my questions? etc?

Wrong population selected?
Time to relieve? Potential Side effects?



First in Man - Ethics Committee

Expected from ECs for first in Man in NL

Medical Device Expertise

It is not just a box that needs to be checked

Don't hesitate to consult external experts

National + International standards & regulations

What is your referenced standard?
ISO 14155 - GCP?



First in Man - Process overview

NL

EC Approval

EC Approval

CA notification

CA notification

UK

EC Approval

CA notification

Separate submission to local EC Standard Pharmaceutical CTA - not applicable to device studies.

Local ECs give their consolidated feedback via DIMDI Requirement for Investigators to have MPG training

Medical device studies will be reviewed by specialized medical devices RECs



First in Man - EC & CA

CA and EC

Is there overlap?

Application Form

Data allowing identification of the device

Clinical Investigation Plan

Investigator's Brochure

Confirmation of Insurance of Subjects Documents used to cbtain in crosses consent

Positive Sptabling Thics Committee

Approval Board of Directors (if applicable)

Name of the Medical Practitioner responsible for the Investigation

The place, starting date and the estimated duration of the Investigation

a statement that the device in question conforms to the essential requirements Statements

- * Human Blood
- * Animal Origin



First in Man - Review by EC and CA

CA: Review for compliance with Wet op medische hulpmiddelen

EC: Review for compliance with WMO (Wet Medisch Wetenschappelijk Onderzoek met mensen)



First in Man - Do you know how?

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Do you know how?

It is a team effort of multiple disciplines

Understand the role of the various key players and act accordingly



First in Man - the Key players

EU **Notified** Manufacturer Legislation **Bodies** Competent International **Ethics** Authorities Standards Committee Subjects Investigator CRO





First in Man - Where to get your info

EU Legislation

Competent Authorities

Notified Bodies

Manufacturer

Ethics Committees

International Standards

Investigator

Subjects

CRO

Peter Ruys:

Your Assistant: the Legislation for Medical Device Regulation

Paul Riem Vis

The IGZ and first in man medical device clinical studies

Erik Vollenbregt:

Legal issues relating to clinical investigation of medical devices

Jeannette van Loon:

Biological safety evaluation of medical devices: a risk management process

Joris Bannenberg

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First in Man - Things to consider

Explain the background of the clinical Clear responsibilities EC investigation & developmental program Include expertise Integral submission portal? Improving the **Dutch research** climate? Efficient review process **Pre-submission Meetings Specialized Ethics Committees** Focus of CA