

# Registry based trials: the ultimate platform for representative enrolment

Presented by Marion Mafham marion.mafham@ndph.ox.ac.uk 5 July 2023

**ESC Cardiovascular Round Table:** The future of clinical trials: **Towards Diversity and Inclusion** 





## **Steps to inclusion**

Facilitate research

### Be eligible $\rightarrow$ Be invited $\rightarrow$ Be interested $\rightarrow$ Be willing $\rightarrow$ Be committed

| Protocol | Invitation<br>method | Partici<br>materi |
|----------|----------------------|-------------------|
|          | Site location        |                   |
|          | Staff burden         |                   |

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#### Society

### Public understanding of research

Support for research among healthcare professionals

ipant rials

Participant materials

Staff interactions Staff interactions

Participant engagement

Trial team



## Definitions

or exposure

registry

- **Registry:** An organised system that collects uniform data (clinical and other) to identify specified outcomes for a population defined by a particular disease, condition
- **Registry-based trial**: Participants are recruited and followed up within an existing



## **Example: VALIDATE-SWEDEHEART Bivalirudin versus Heparin Monotherapy in Myocardial Infarction**

| Admitted with STEMI or N   |  |
|----------------------------|--|
| Open-label                 |  |
| 1:1 randomisation          |  |
| Intravenous bivalirudin vs |  |
| Death, myocardial infarcti |  |
|                            |  |

NSTEMI and urgent PCI planned

s intra-arterial unfractionated heparin tion, or major bleeding at 180 days



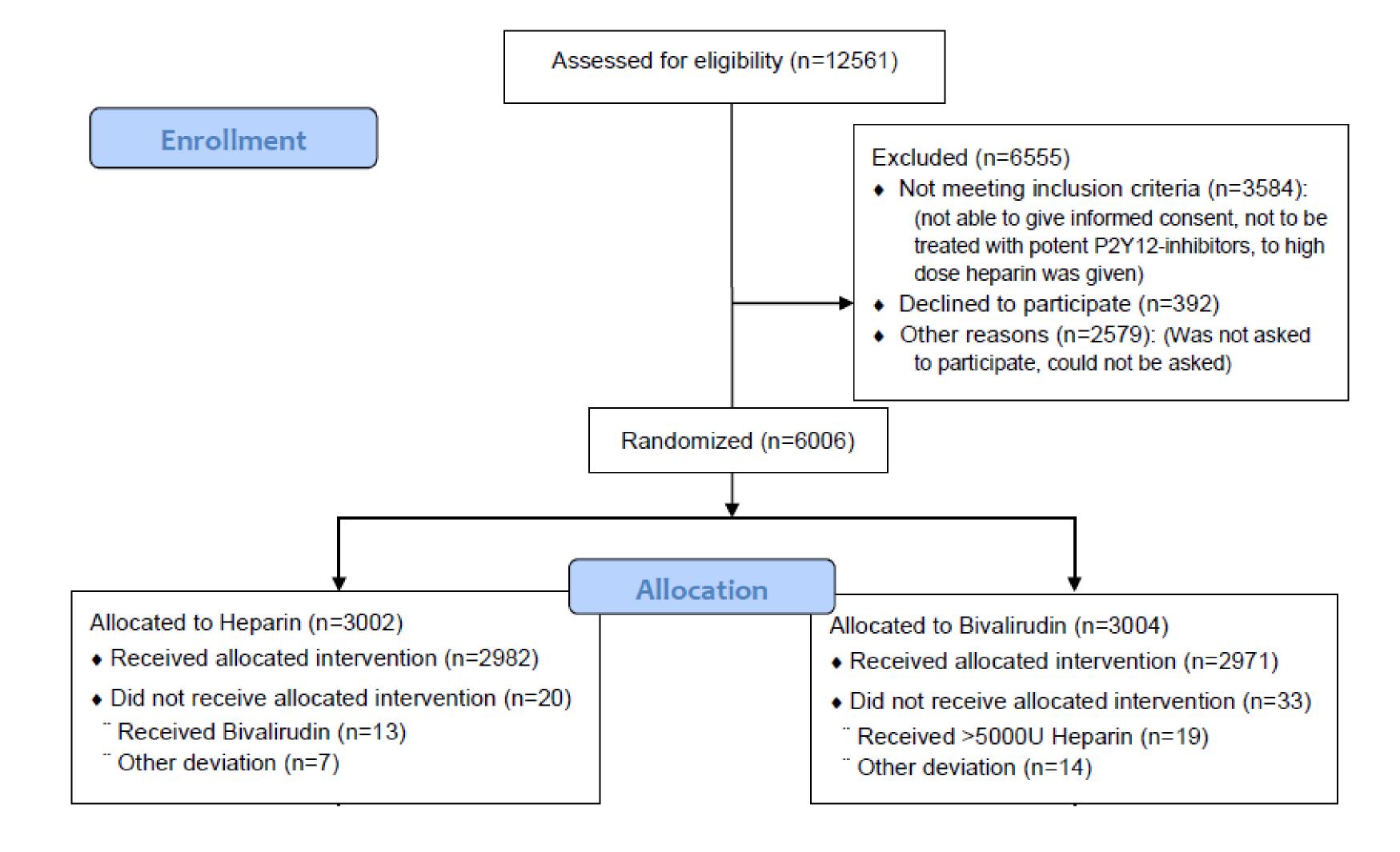
## **VALIDATE-SWEDEHEART: How were** participants recruited?

- $\rightarrow$  Be eligible
- $\rightarrow$  Be invited
- $\rightarrow$  Be interested
- $\rightarrow$  Be willing
- $\rightarrow$  Be committed

- Simple, broad eligibility criteria
- 22 sites across Denmark. All relevant patients assessed
- Low burden for participants
- Verbal consent for STEMI participants
- Telephone follow-up at 7 and 180 days



## **VALIDATE-SWEDEHEART:** Participant enrolment





## **VALIDATE-SWEDEHEART: Selected baseline** characteristics

| Characteristic           | All Patients Enrolled in the Trial (N=6006) | Screened Patients Not<br>Enrolled in the Trial<br>(N=6555) |
|--------------------------|---------------------------------------------|------------------------------------------------------------|
| STEMI — no. (%)          | 3005 (50.0)                                 | 2318 (35.4)                                                |
| Male sex — no. (%)       | 4406 (73.4)                                 | 4555 (69.5)                                                |
| Median age— yr           | 68.0                                        | 71.0                                                       |
| Current smoker — no. (%) | 1426 (23.7)                                 | 1361 (20.8)                                                |
| Diabetes — no. (%)       | 999 (16.6)                                  | 1631 (24.9)                                                |
| Hypertension — no. (%)   | 3105 (51.7)                                 | 4080 (62.2)                                                |
| Previous MI — no. (%)    | 974 (16.2)                                  | 1831 (27.9)                                                |



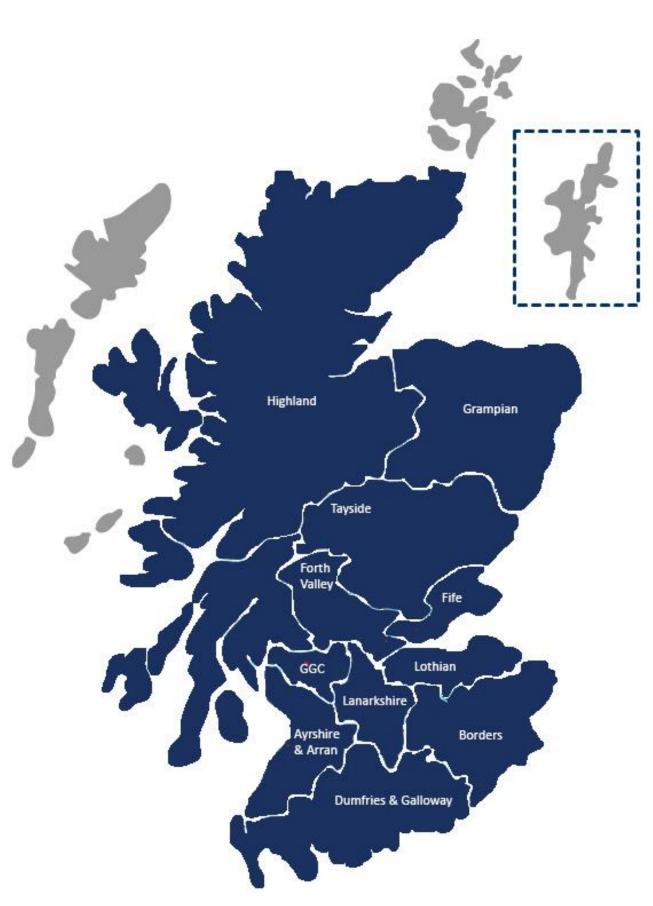


## LENS: fenofibrate for diabetic retinopathy

- Trial design: Randomised double-blind placebo-controlled trial
- **Run-in:** active, 2-3 months
- **Treatment:** 145mg <u>fenofibrate</u> tablet or placebo
- Eligibility: adults, T1DM and T2DM, observable eye disease
- Sample size: >1000 patients
- **Primary outcome:** progression to referable eye disease or treatment
- NHS data linkage: recruitment and most outcomes
- **Contact:** two visits in person, then by telephone + post



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## **Registry trials - key elements for inclusivity**

- Broad, simple eligibility (where-ever possible)
- Low burden of data collection for sites and participant
- Recruitment embedded in clinical care (acute/one-off interventions)
- Opportunities for direct-to-participant national mail-based recruitment (long-term treatments)

