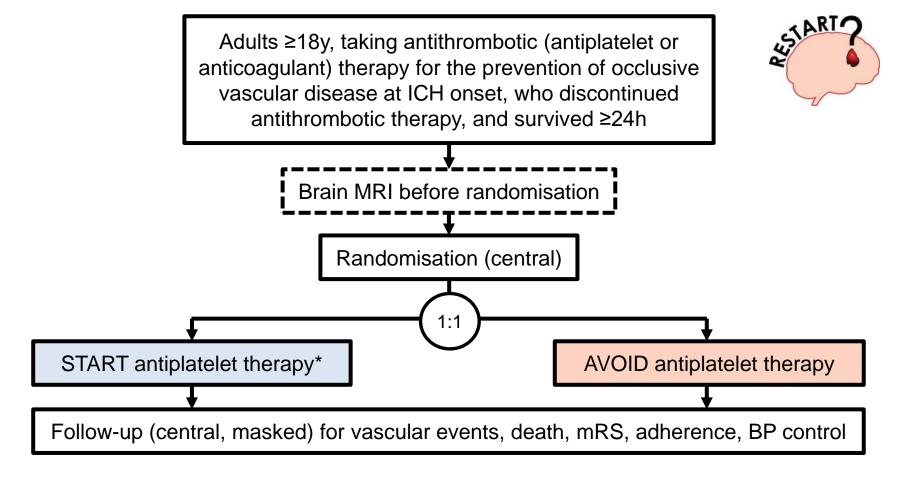


## Edinburgh Stroke Trials

Effects of antiplatelet therapy after stroke due to intracerebral haemorrhage: main results of the <u>RE</u>start or <u>ST</u>op <u>Antithrombotics Randomised Trial (RESTART)</u>

RESTART Collaboration

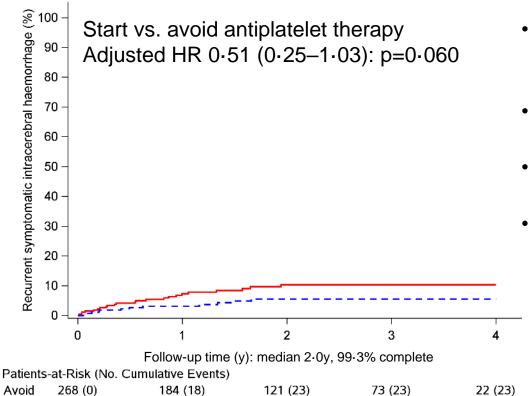




<sup>\*</sup> Aspirin or clopidogrel or dipyridamole (open, no placebo)

### Primary outcome: recurrent ICH





122 (12)

72 (12)

25 (12)

268(0)

Start

190 (8)

- Unchanged in unadjusted and adjusted models, and sensitivity analyses
- No heterogeneity in sub-group analyses
- Adherence 99% after randomisation, 82% @ 4y
- Median systolic BP 130mmHg throughout

**Avoid:** n=23/268 (8.6%)

**Start:** n=12/268 (4.5%)

# Starting antiplatelet therapy after ICH associated with antithrombotic drug use



- Reassuring effects on recurrent ICH
  - Lower than the increase in risk expected (RR=1.67 in ATT trials)
  - Antiplatelet therapy might reduce the risk of recurrent ICH
    - HR 0-51 (95% CI 0-25–1-03), p=0-060
  - Any possible increase in risk seems too small to exceed the established benefits of antiplatelet therapy
- No heterogeneity in sub-groups, but estimates imprecise
- Recruit to ongoing trials (RESTART-Fr, STATICH)

### Thank you to everyone who helped...



- Participants, relatives, and carers
- Primary care practitioners
- Collaborators: at 122 hospitals in the UK
- Trial management group: K Innes (senior trial manager); L Dinsmore (imaging manager); J Drever (data manager); C Williams (centre coordinator); D Perry, C McGill, D Buchanan, A Walker, A Hutchison, C Matthews (database programmers); R Fraser, A McGrath, A Deary, R Anderson, A Maxwell, P Walker (trial support officers); J Stephen, C Holm Hansen, R Parker, A Rodriguez (unmasked independent statisticians)
- Trial steering committee: Independent members: C
  Baigent (chair), J Carrie (patient—public representative), D
  Lasserson, F Sullivan. Others: R Al-Shahi Salman (chief
  investigator), MS Dennis, GD Murray, DE Newby, PAG
  Sandercock, CLM Sudlow, WN Whiteley, N Sprigg, DJ
  Werring, PM White
- Data monitoring committee: J Bamford (chair), J Armitage, J Emberson, GJE Rinkel, G Lowe

- Outcome event adjudicators: WN Whiteley, MR Macleod (internal); T Gattringer (external)
- Systematic Management, Archiving and Reviewing of Trial Images Service (SMARTIS): JM Wardlaw (director), J Palmer, E Sakka, J Adil-Smith
- Brain imaging assessors: PM White, DP Minks, D Mitra, P Bhatnagar, JC du Plessis, Y Joshi
- Funder: British Heart Foundation (S Amoils)
- Sponsor: ACCORD (J Rojas)
- Clinical research networks: NIHR clinical research network, NRS Scottish Stroke Research Network, SINAPSE collaboration
- Clinical trials unit: Edinburgh Clinical Trials Unit
- TICH-2 trial team: co-enrolment
- Peer reviewers: ?
- Editors and publisher...



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