Selecting the right method for the right problem

Hugo Pedder
University of Bristol, ConnectHEOR

bristol.ac.uk

Disclaimers

Roles

- An employee of the University of Bristol
- An employee of ConnectHEOR
- A member of NICE TAC A

The views here are my own and do not represent any of the organisations I work for / with

Overview

- A maze of indirect comparisons
- Population adjustment – why bother?
- The importance of a target population
- Approach to select an appropriate ITC method
- Where do we go from here?

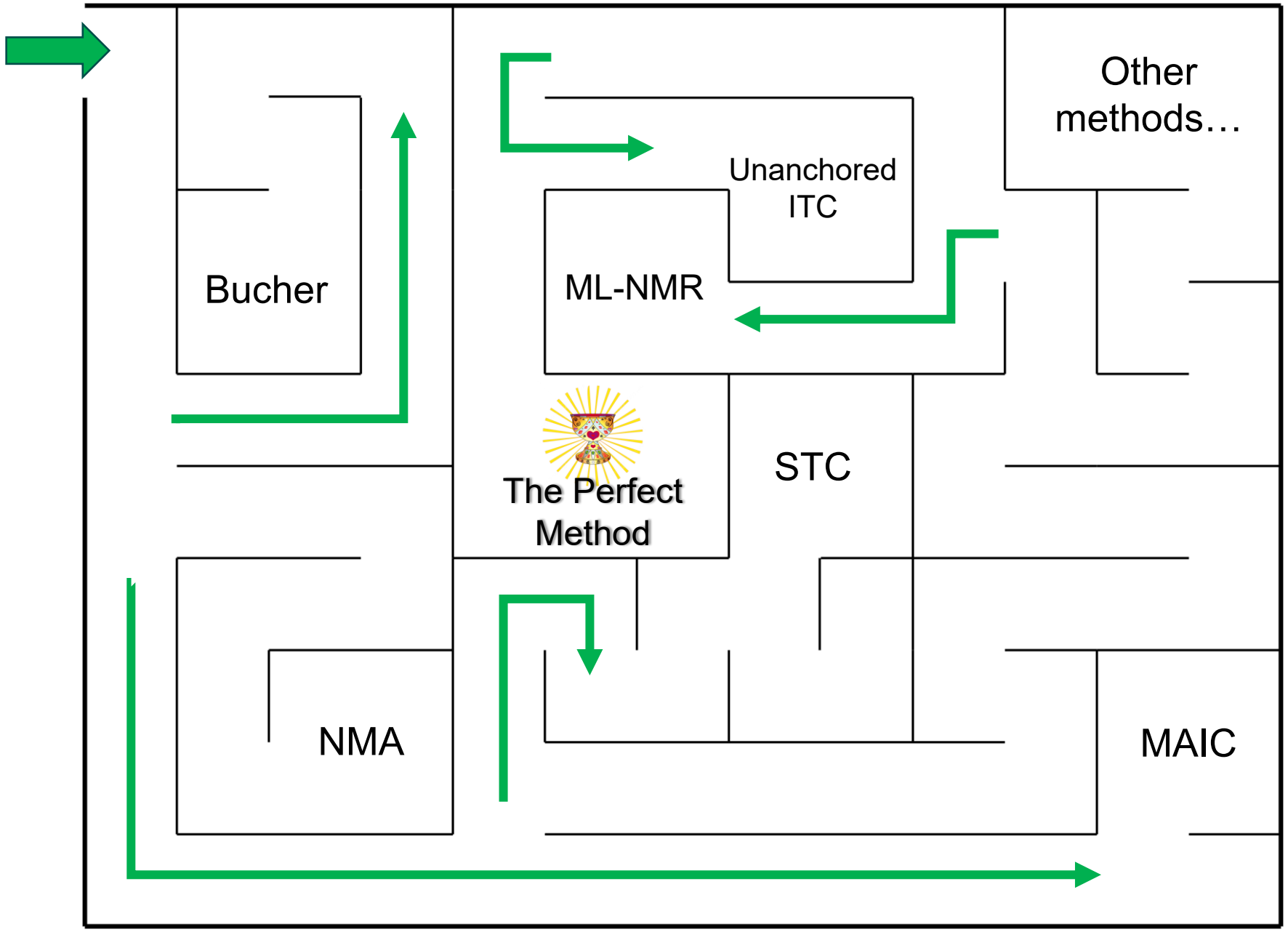
"The trial populations aren't the same"

"Poor covariate overlap"

"Multiple comparators"

"Common comparator isn't the same"

"All important prognostic factors aren't available"



The Problem

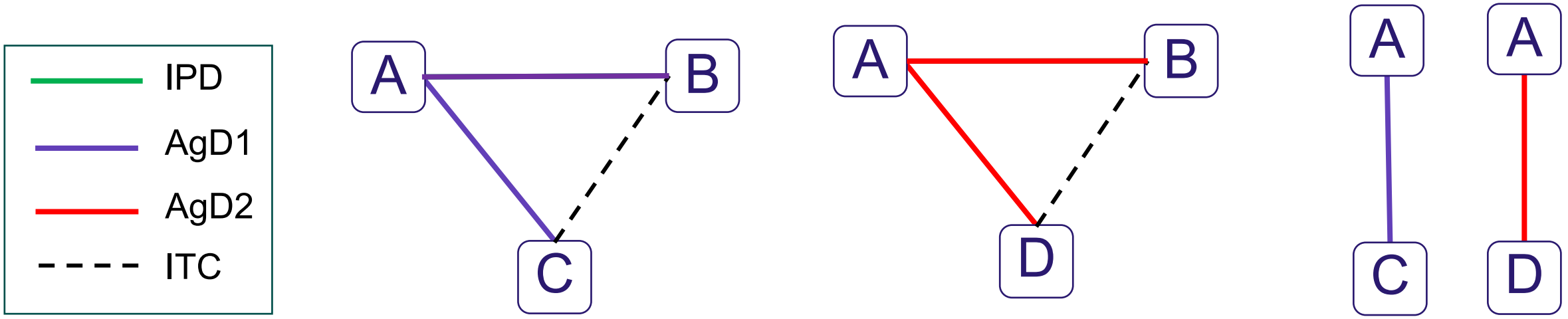
The Perfect Method doesn't exist

(given the data available to us)

- Fundamentally a limitation of the data
  - Not all effect modifiers / prognostic factors are balanced (populations differ between trials)
  - We don't have access to all the IPD
- We must focus on weighing up the plausibility of different assumptions

What's the deal with population adjustment?

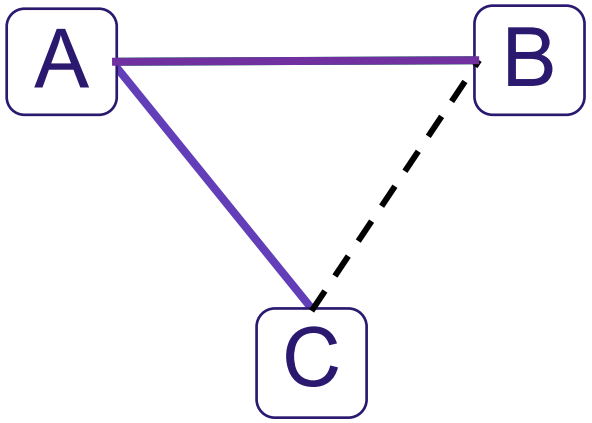
- Trial populations may differ
  - Imbalance in effect modifiers (anchored & unanchored ITCs)
  - Imbalance in prognostic factors (unanchored ITCs*)
- Manufacturers typically only have access to IPD from their own trial
  - This limits the populations we can adjust into



* Balancing prognostic factors is also important to avoid aggregation bias when estimating non-collapsible measures

The Importance of the Target Population

- This is not just an issue for ITCs with >1 comparator
  - What about if the target population differs to the comparator trial?



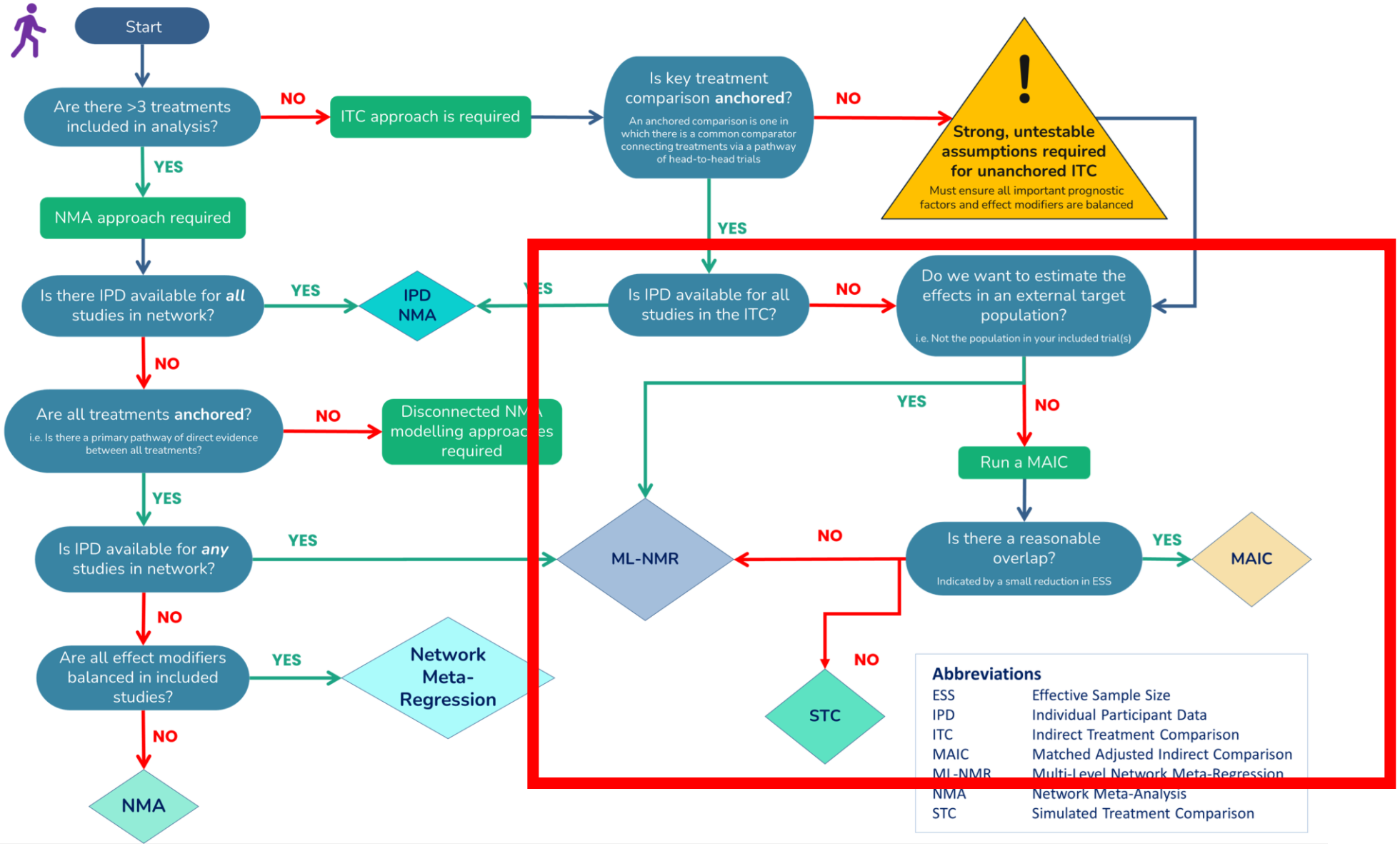
ML-NMR allows some flexibility here via Shared Effect Modifier assumption

If the pivotal trial is generalisable, then adjusting it to match another population will mean that **it cannot still be generalisable**.

For comparative treatment effects, the generalisability **of the comparator trial** should be the focus within the appraisal

Approach for Selecting (and justifying) an ITC Method

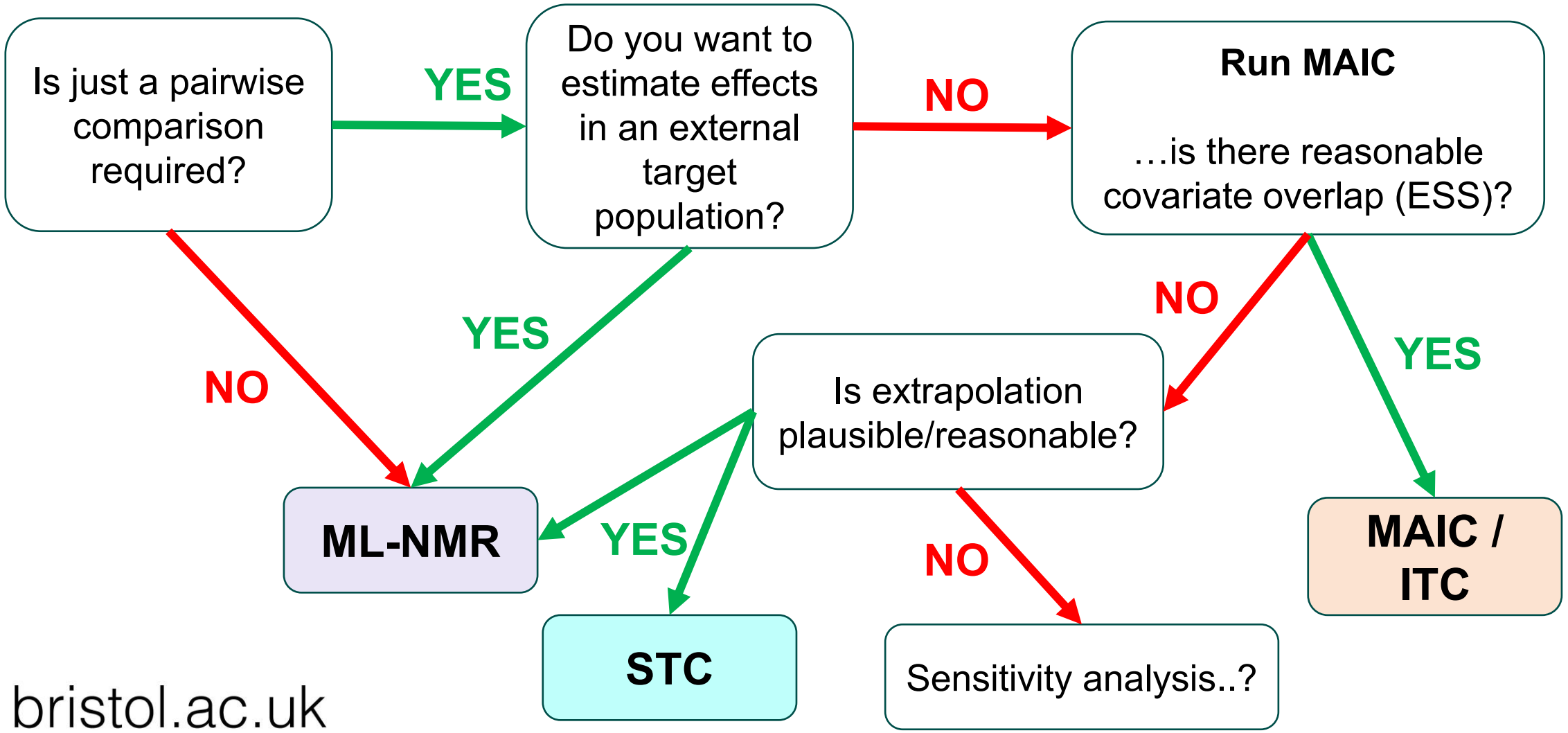
bristol.ac.uk



hugo.pedder@bristol.ac.uk

hugo.pedder@connectheor.com

Choosing a PAIC Method



Where do we go from here?

- We want your input!
  - –The decision diagram is just our perspective so far
  - –We want to refine it to incorporate various stakeholders

- ISPOR Task Force on PAICs?
  - –ISPOR Task Force on ITC in 2014

Thanks for listening!

connectHEOR

Kindness is COST-EFFECTIVE™

Q&A Time!

Closing remarks

Key messages

1. **Clear frameworks to support appropriate ITC model selection and justification**
2. **Transparent communication of complex analyses for informed decision-making**
3. **Harmonised standards** across stakeholders to ensure consistency and promote innovation

Let's collaborate to navigate these challenges.