P2

Fit-for-purpose evidence for synthetic data

From inference reproducibility to regulatory acceptance in clinical research.

PhD direction | Epidemiology · Regulatory science | Suits: KI · co-supervised

The question

What body of evidence should be required before synthetic clinical data is used for a given research purpose, and how can that evidence be standardised so registries, access bodies and regulators accept it?

Why it matters

There is no reporting guideline for synthetic health data comparable to those for trials or observational studies. Sweden's registers and secure environments make it an unusually good place to build and test one.

What you would do

01 Systematically review evaluation practice and existing reporting guidelines.

02 Run reproducibility studies on public and, where approved, register-based data.

03 Develop and test a reporting guideline through consensus methods with clinicians, statisticians and regulators.

04 Study adoption in real research projects.

What you would produce

- A proposed reporting guideline
- A series of reproducibility studies
- Evidence on adoption and acceptance

Good fit if you have

Epidemiology or biostatistics master's; interest in research methods and regulation.

Data and access

Public seed data (CMS DE-SynPUF) and synthetic releases from day one. Work on real patient records only inside a partner's approved secure environment, with ethics approval. We hold no Swedish patient data.

Timing and place

Start by agreement. We are an early-stage company and cannot fund a PhD position alone; this is a direction for a co-supervised project if a research group and funding (e.g. an industrial doctorate) align.

Supervision

Gaurav Raj Chattarki, Founder, Synthetix Health, together with your academic supervisor.

Questions or a proposal of your own? gaurav@synthetixhealth.com · synthetixhealth.com/careers#thesis
All projects run under a confidentiality and IP agreement agreed before work begins. We review drafts only for confidential information, never for results. Negative results are publishable.