

How Chronic Diseases Elevate the Risk of Other Chronic Diseases

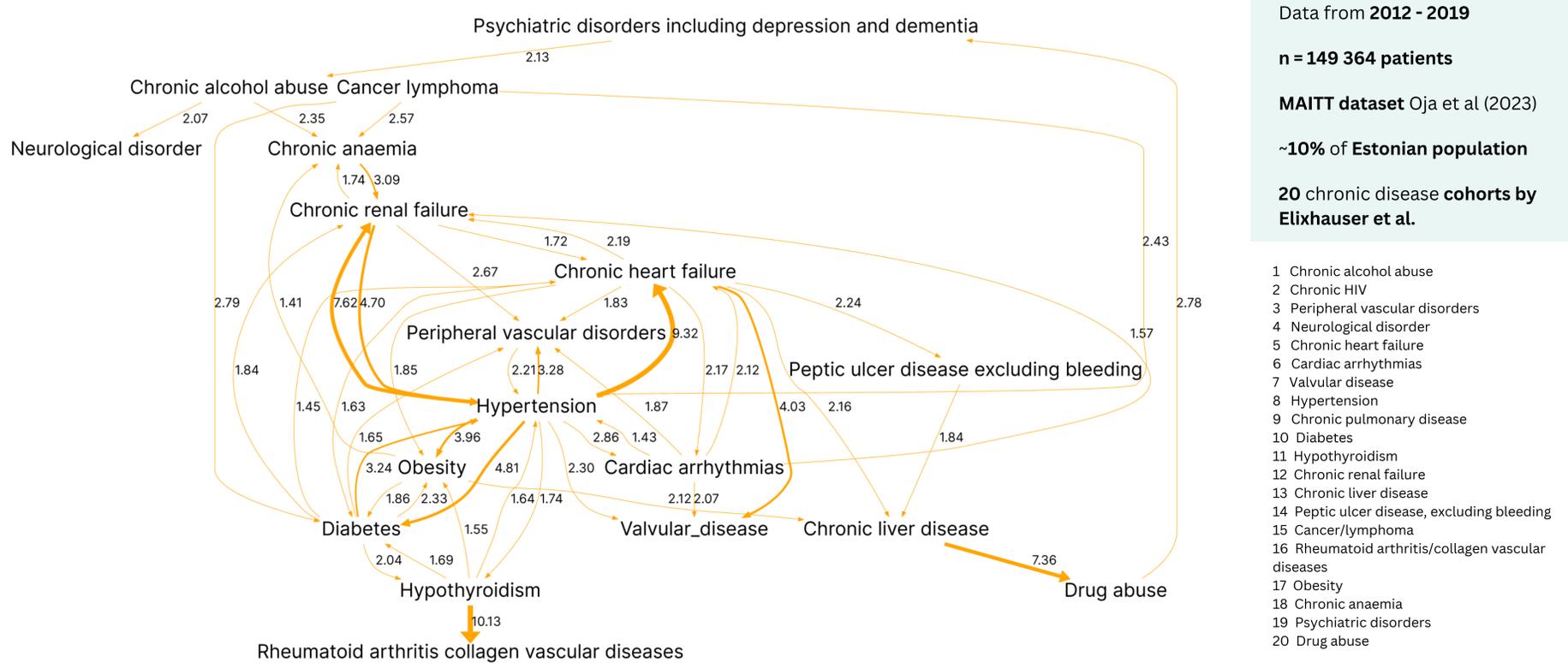
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Method for Discovering Cohort-based Trajectories from OMOP CDM

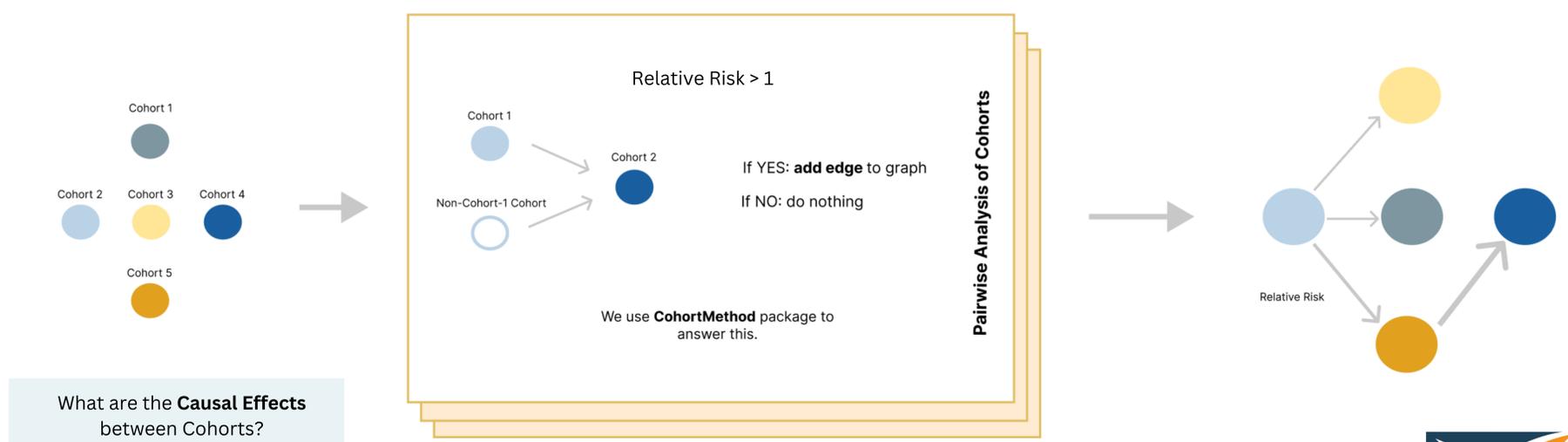
We propose **improving the methodology** for the **automatic hypotheses free trajectory discovery framework** published by Künnapuu et al.[1] Mainly, we are resolving one of the key limitations addressed by their work, namely **the problem of generalizability of the events**.

The limitation of this method is that it works on the **predefined cohorts** which needs manual work. The results are **not validated on an independent dataset** yet.

Results: Relative Risk calculation between all cohort pairs



Method: Does prior Cohort 1 increase the risk of the observing Cohort 2?



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Oja et al (2023). Transforming Estonian health data to the Observational Medical Outcomes Partnership (OMOP) Common Data Model: lessons learned

Elixhauser A, Steiner C, Harris DR, Coffey RM. Comorbidity measures for use with administrative data. Med Care. 1998 Jan;36(1):8-27. doi: 10.1097/00005650-199801000-00004. PMID: 9431328.

Schumie et al. An R package for performing new-user cohort studies in an observational database in the OMOP Common Data Model. <https://ohdsi.github.io/CohortMethod/>



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