



MAASTRICHT MEDICATION DATALINK

Identifying and preventing
prescribing cascades

Bridget van Hoof, Eva Mans, Josef Sezemský, Rafke van Loo
MUMC+ coach: Yannick Nielen
UM coach: Joost Verbeek



Maastricht University



Maastricht UMC+

ORGANISATION

- The Maastricht University Medical Center+ (MUMC+)
- Mission: provide the best possible care and improve health by integrating patient care, research, and education.
- Adopting the EPIC system to streamline data management and improve medication research.
- Pharmacy is responsible for the preparation, dispensing, monitoring, and checking of medications.

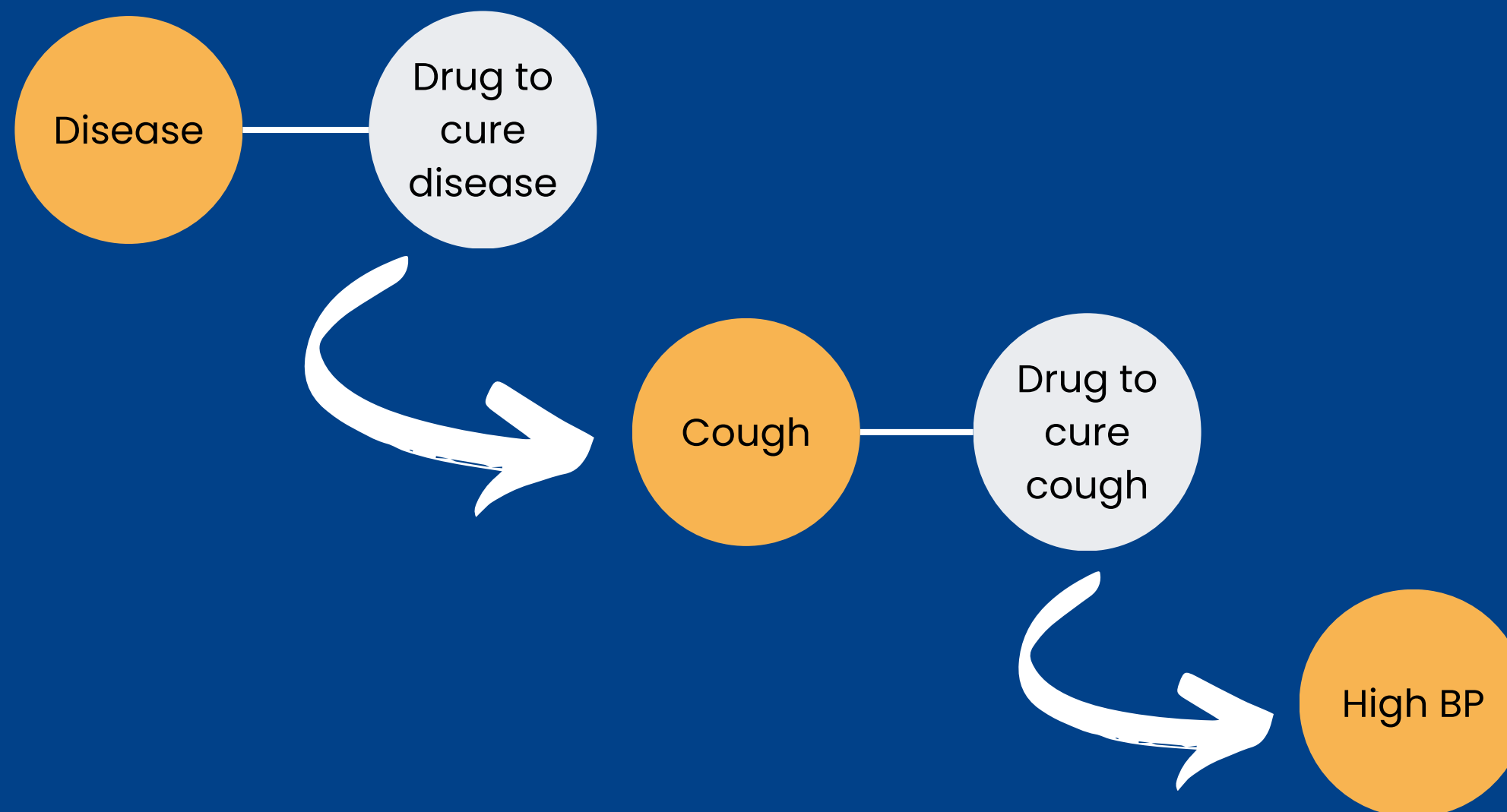




PRESCRIBING CASCADES

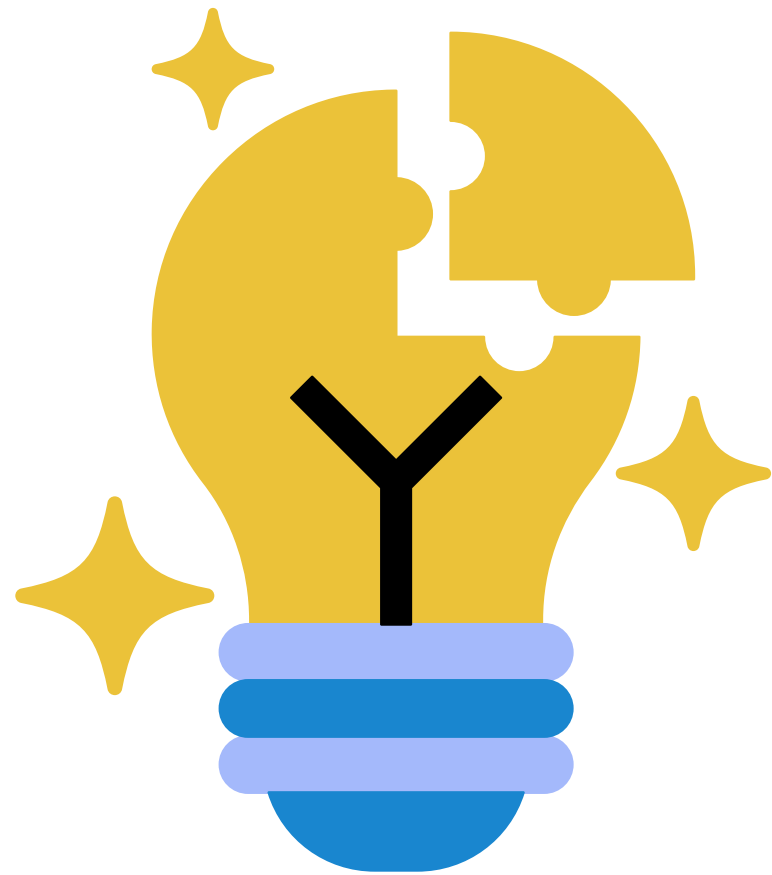


Where an adverse reaction to a medication leads to unnecessary additional prescriptions



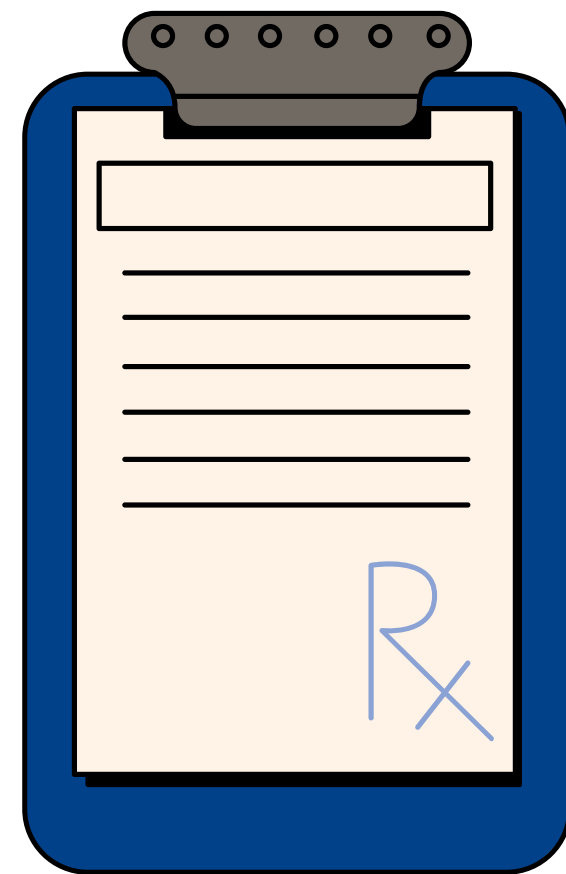


PROBLEM STATEMENT



Maastricht UMC+'s current prescription system fails to detect and prevent prescribing cascades, leading to unnecessary medications, increased healthcare costs, and compromised patient safety, exacerbated by alert fatigue from inefficient decision support systems.



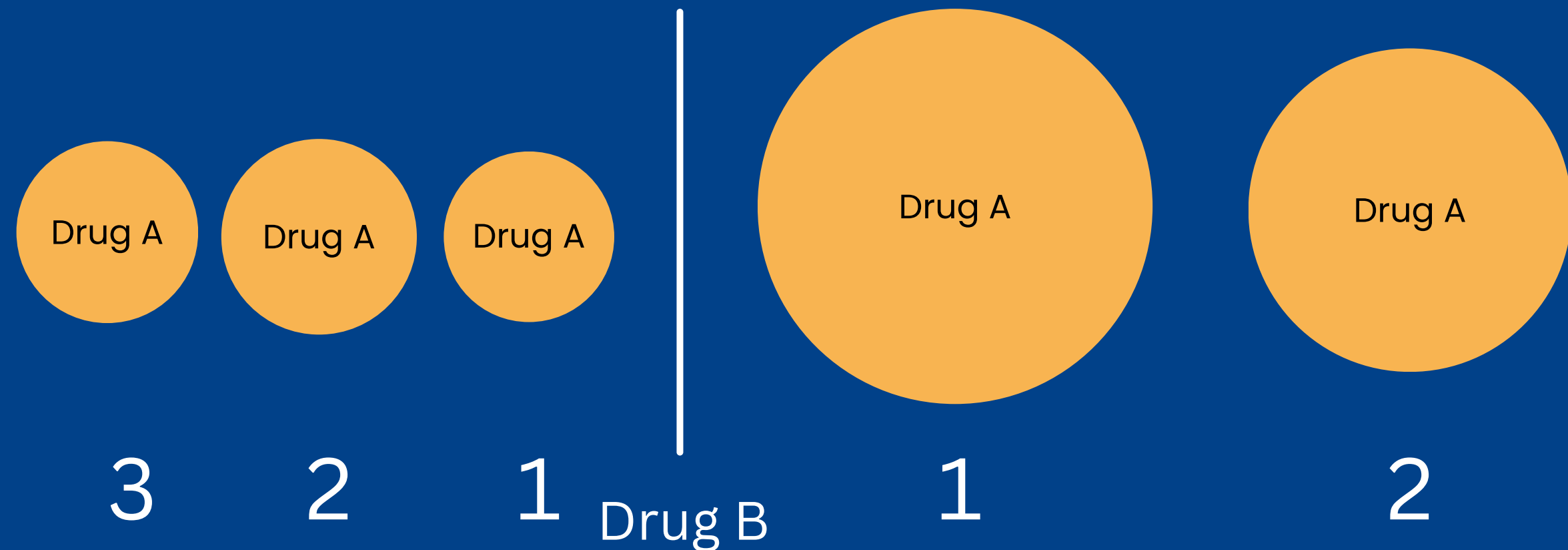


PROJECT

- Prescribing cascades
- Prescription sequence symmetry analysis

Goal: optimize medication use and prescription

Prototype: design a tool for clinical application





PERIOD 1



- Weekly meetings with coach Yannick
- Tour through pharmacy
- Literature research
- Received access to hospital network
- Received data for period 2
- Downloaded necessary apps for next period



PLAN OF ACTION



P2

Analyse dataset, generate ideas for features and design of tools

P2

Design the prototype & test the prototype

P2

Incorporate PSSA into the designed tool

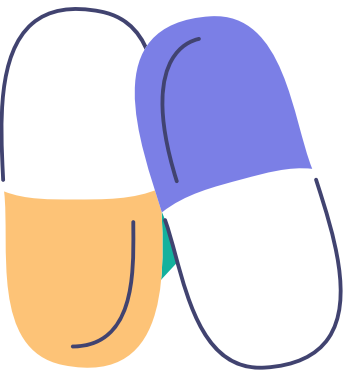


Maastricht University



Maastricht UMC+

QUESTIONS?



Maastricht University



Maastricht UMC+