

digitalhealth

REWired

LONDON 14-15 MARCH 2023

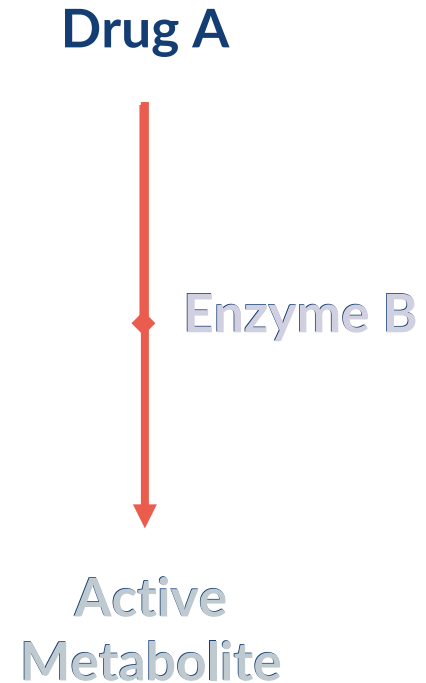
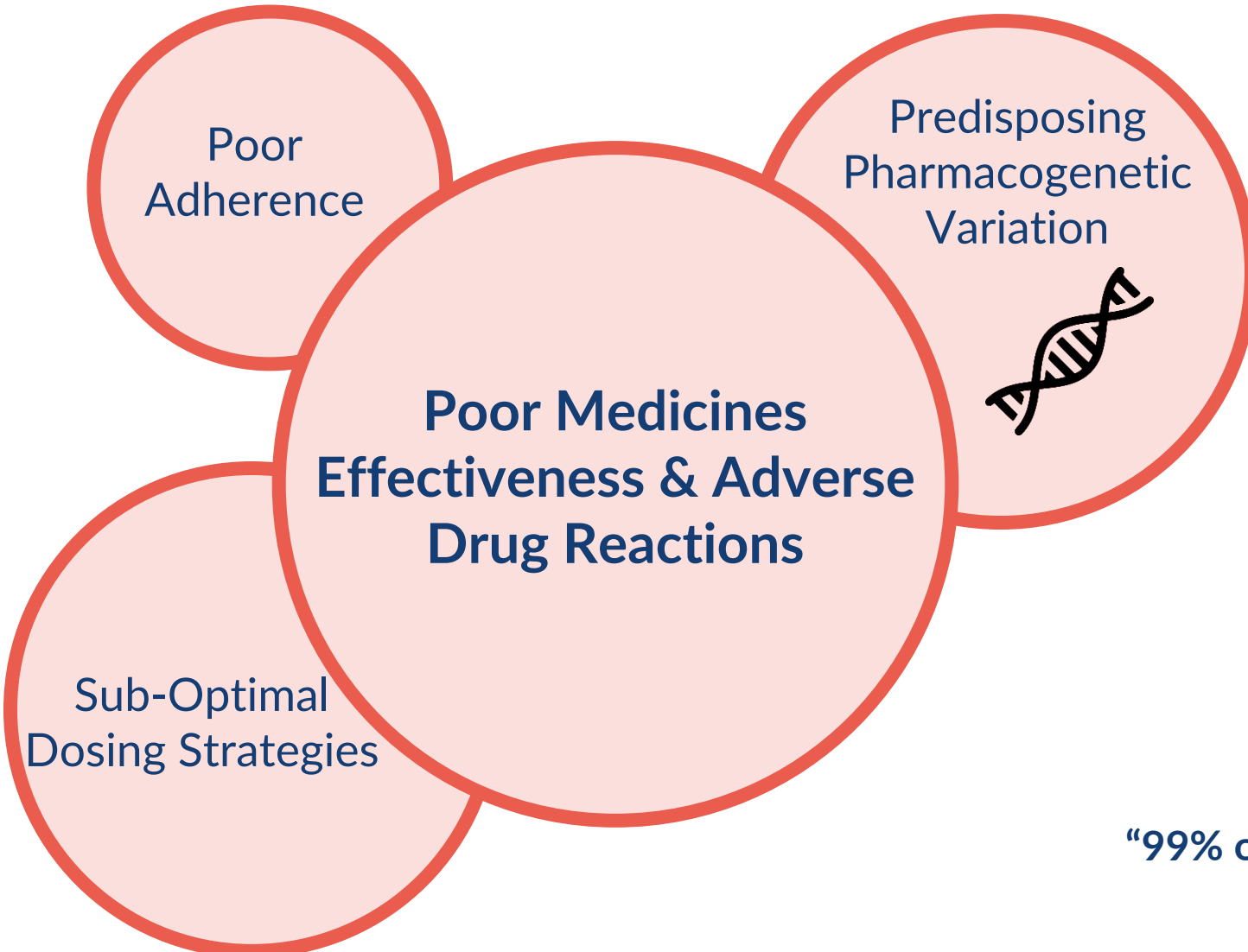
Headline Sponsors:



Jessica Keen

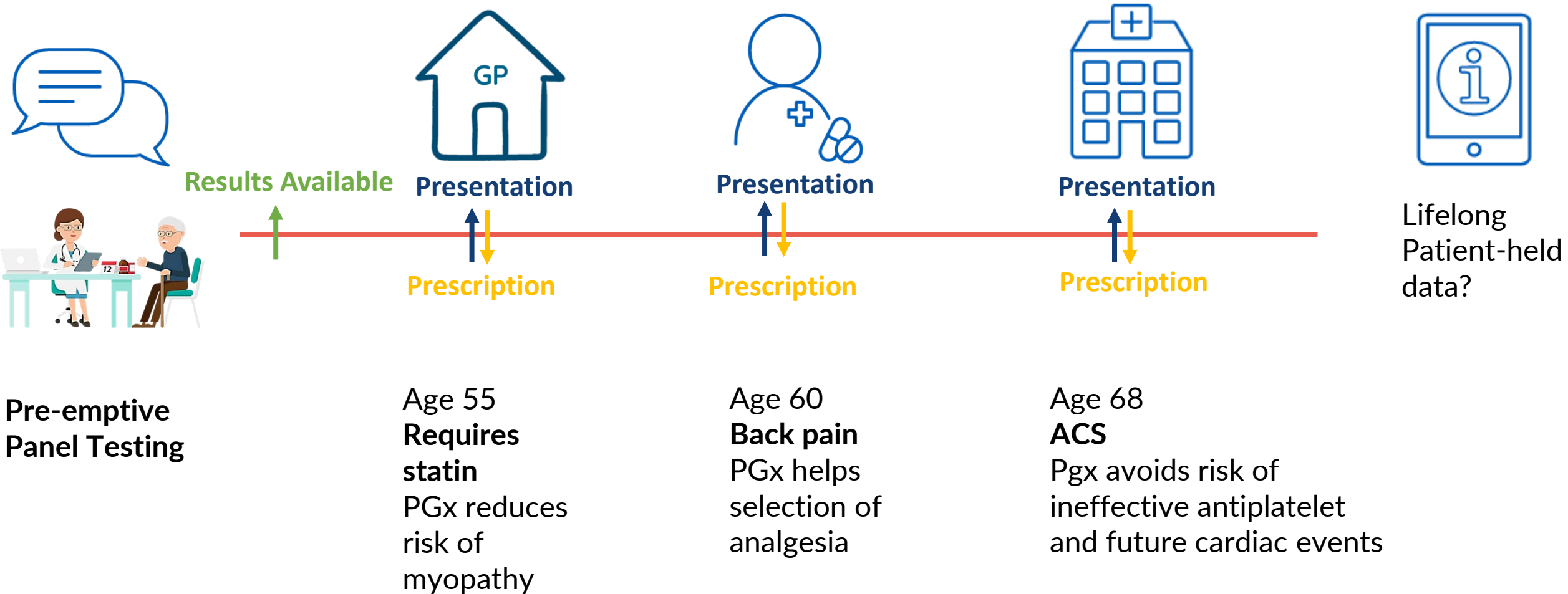
Pharmacy Lead
NHS North West Genomic
Medicine Service Alliance

Common Genetic Variation is Associated with Poor Medicines Effectiveness and Adverse Drug Reactions



“99% of Individuals Carry Pharmacogenetic Variation”

Personalising Healthcare Through Pharmacogenetics



Clinical Decision Support

Genetic Variation

CYP2C19

c.636G>A p.(W212X)
c.1297C>T p.(R433W)

*3,*5

CYP2C19 (*3/*5)

CYP2C19 PM

Clopidogrel



Prescribe Alternative Antiplatelet

1.Genotype

2.Haplotype

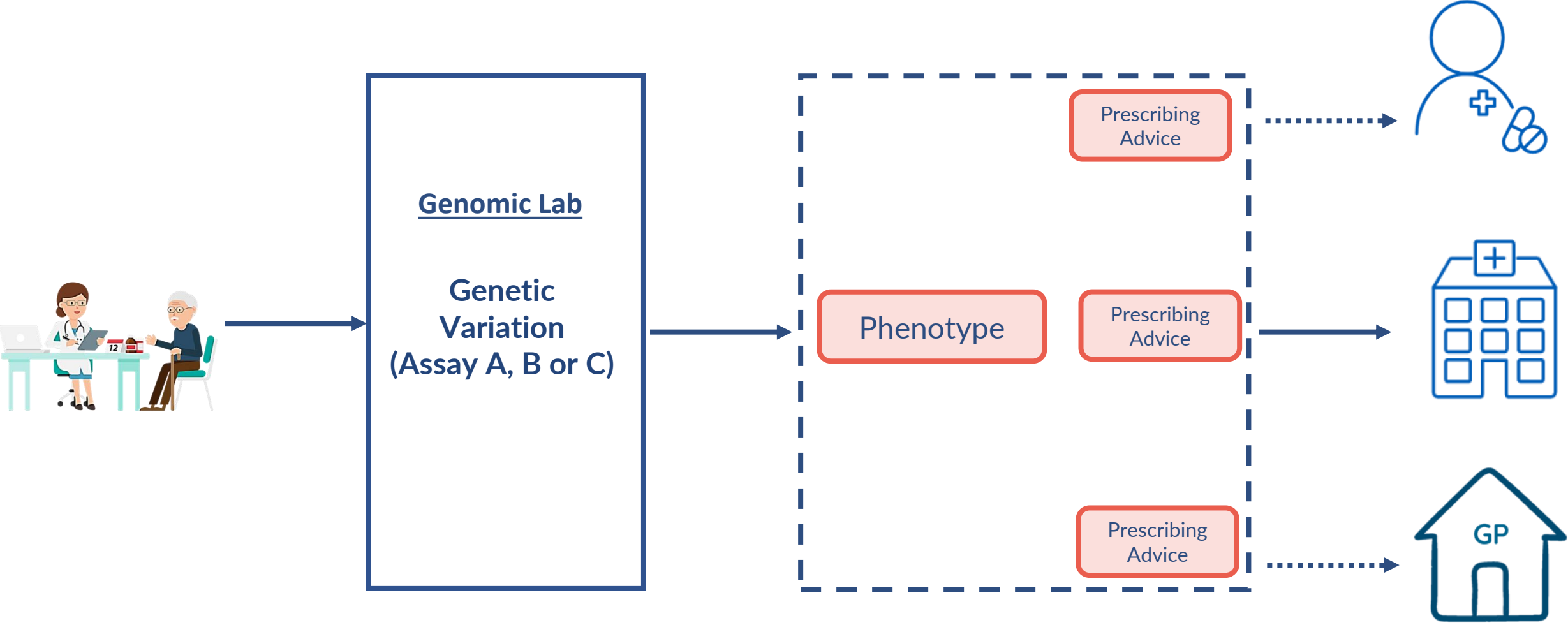
3.Diplotype

4.Phenotype

5.Guidance



Personalised Prescribing across Integrated Care Systems



User Research



Important to have PGx results fully integrated into the Electronic Health Records



Pop-up or review list?
Both!



Recommendations must be specific – no time to review multiple options

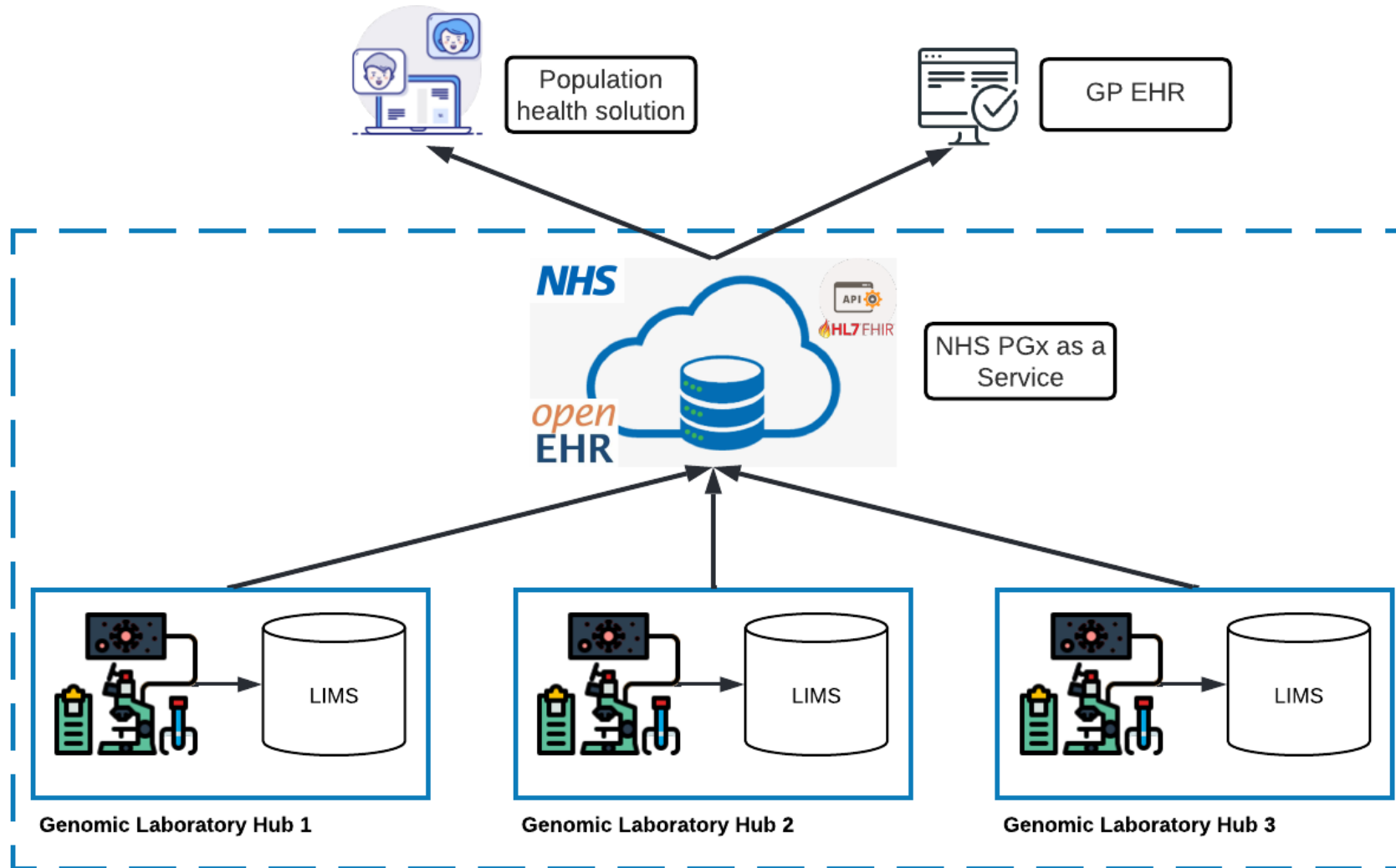


PGx process needs to be very clear and understandable to all



Lack of familiarity with PGx research and potential – a need for education

Pharmacogenomics as a Service



**NHS Genomics
governance boundary**

Thank you for listening

Email: Jessica.keen@mft.nhs.uk



@JessicaKPharma1

www.nw-gmsa.nhs.uk/education-and-research/et-resources/pharmacogenomics