

I work in pharmacy. Why do I need to know about genomics?

All pharmacy teams need to know about genomics.

It's now included in the GPhC Initial Education and Training Standards for Pharmacists: https://bit.ly/IETPharm.

Here are some examples of genomics in everyday pharmacy practice:

- Antibiotics: mt-RNR1 test for risk of aminoglycoside-related hearing loss
- Familial Hypercholesterolaemia (FH): identifying patients for genetic testing and supporting lipid management
- Cancer: DPYD test before fluoropyrimidine use, TPMT/NUDT15 testing for thiopurine use in cancer
- HIV: interpreting HLA-B*57-01 results to avoid adverse reactions to abacavir
- Supporting patients with genetic conditions e.g. Cystic Fibrosis, monogenic diabetes

- Providing pharmacy technical services support for gene therapies and Advanced Therapy Medicinal Products
- Near future: interpreting CYP2C19 test results to identify patients who do not respond to clopidogrel, and optimising medication
- Near future: using genetic test results to optimise dosage of drugs such as mavacamtem
- Near future: supporting prescribing through pharmacogenomic panel testing for drugs such as opioids, statins, antidepressants

I work in pharmacy. Where can I learn more about genomics?

Explore the many free online courses and resources at:



Genomics Education Programme

NHSE Genomics Education Programme

genomicseducation.hee.nhs.uk Online courses and tools. including GeNotes case-study based resources.





Future Learn

futurelearn.com

Many courses are free to access if completed within a specific timeframe.





e-Learning for Healthcare e-lfh.org.uk

Genomics in the NHS learning modules



PHARMACEUTICAL SOCIETY

RPS position statement for pharmacy professionals and genomic medicine rpharms.com/development/ pharmacogenomics/genomicstatement







BPS/RCP Personalised Prescribing – using pharmacogenomics to improve patient outcomes bps.ac.uk/about/our-campaigns/personalisedprescribing

Explore the National Genomic Test Directory to find out about NHSE commissioned genomic tests and eligibility criteria at: www.england.nhs.uk/publication/national-genomic-testdirectories/

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