Join the pharmacogenomics revolution

Pharmacogenomics (PGx) uses a patient's genetic profile to optimize drug safety, efficacy and enables drug choice

Why is PGx important?



Up to 70%

Up to 70% of patients treated with top-selling medications*



82% of American adults take at least one medication



Adverse drug reactions affect nearly 3 million people and are the 4th leading cause of death in the US ^{2,3}



More than 5 billion prescriptions are written every year 4

What can PGx testing do?



Enables precise prescribing decisions



Reduces trial and error





Helps predict effective, safe medications and doses



Lowers health care costs 5,6



Helps reduce health disparities 7

PGx research can impact:



Psychiatry and mental health



Cardiology





Pain management



Perioperative care and post-operative care

References

- 1. Schork NJ (2015) Personalized medicine: Time for one-person trials. *Nature* 520(7549):609-11.
- 2. https://health.gov/our-work/health-care-quality/adverse-drug-events
- 3. FDA (2021) https://www.fda.gov/drugs/drug-interactions-labeling/preventable-adverse-drug-reactions-focus-drug-interactions
- 4. IQVIA Institute for Human Data Science. Medicine Use and Spending in the U.S. (2019) https://www.iqvia.com/insights/the-iqvia-institute/reports/medicine-use-and-spending-in-the-us-a-review-of-2018-and-outlook-to-2023
- Maciel A, Cullers A, Lukowiak AA, Garces J (2018) Estimating cost savings of pharmacogenetic testing for depression in real-world clinical settings. Neuropsychiatric disease and treatment 14: 225–230. https://doi. org/10.2147/NDT S145046
- 6. An-Economic-Evaluation-of-Pharmacogenomic-Testing.pdf (pro-genex.com) 7. pgs-18-1541.pdf (nih.gov)



^{* 90%} of top-selling medictions only treat 30–50% of patients