

Case Study

Teachers' Retirement System of Kentucky

Medications: One Size Doesn't Fit All

Nearly a third of U.S. adults take 5 or more prescription drugs¹ and, even when these medicines are taken correctly, they can be dangerous for many. Payers, providers, and patients bear the financial and physical burdens of inappropriate, ineffective drugs. Pharmacogenomics (PGx) testing, when integrated with patient health history and clinical decision-support, proactively minimizes harmful side effects. Coriell Life Sciences' Enterprise PGx program has been proven to advance health, promote well-being, and control costs.

Knowing What Works

What makes our Enterprise PGx (EPGx) the most comprehensive medication safety solution on the market?

Each person's response to medications is different based on how their genes metabolize drugs. But when it comes to individual medication safety and efficacy, drug-to-gene testing on its own is not enough. EPGx is a turnkey program that sets the standard in pharmacogenomic interpretation and reporting, from initial analysis of demographic population through delivery of actionable results.

Enterprise PGx leverages genetic information with traditional medication therapy management to ensure that prescriptions are effective and safe. Robust data analytics and expert pharmacy review, using real-time models, allows pharmacists and providers to quickly see the results of medication changes – before any drugs are prescribed.

What is Enterprise PGx?



Population Analytics

Quickly answer
“Who should we test?”
by mapping risks and ROI



Member Engagement

Member education and
enrollment is customized
and fully coordinated



Genetic Testing

CLIA-licensed laboratories
perform secure, HIPAA-
regulated DNA testing



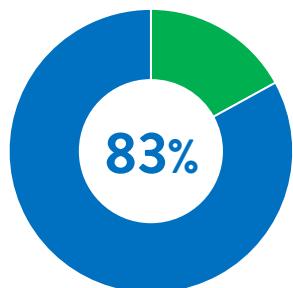
Pharmacy Review

Model recommendations
and Medication Action Plans
(MAPs) in real-time

Better Health, Lower Costs in Kentucky

The Teachers' Retirement System (TRS) of Kentucky pension fund —which serves 35,000 retirees aged 65 to 107— faces economic challenges. In partnership with TRS, its retirees, and the Know Your Rx Coalition pharmacists, Coriell Life Sciences piloted the Enterprise PGx program to get TRS members healthier and save money.

We discovered nearly half of retirees were on drugs that could react poorly with their DNA and 83% took medications with known drug-to-gene, or PGx, implications. Medication changes were recommended for 64% of retirees; prescribers approved 94% of these suggestions. Pharmacists studied each person's medication regimen in real-time and modeled custom Medication Action Plans (MAPs). Armed with this knowledge, retirees and their health providers used their MAPs to determine next steps. Retirees paid no fees – costs for enrollment, genetic testing, and pharmacy review were covered by the TRS.



Percent of patients taking
medications with known
PGx implications

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By the Numbers

Coriell Life Sciences' EPGx program has shown a 5-9 times return on investment.

The Teachers' Retirement System of Kentucky population and implementation quickly demonstrated better health and cost savings.

Enterprise PGx

17% reduction in cost-to-plan spending within 6 months; compared to control group's 2.5% increase in spending

29% reduction in hospitalizations, 24% reduction in slips and falls, and 18% reduction in pharmacy spend

28% reduction in MA3 events: Medication Adherence, Medication Appropriateness, and Medication Adversity

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“We’re focused on helping our participants get healthier and improve their quality of life — Enterprise PGx aligns with our mission, and really made a difference.”

Jane Cheshire Gilbert, CPA, Director of Retiree Health, Teachers' Retirement System of Kentucky

Always Learning

We are always learning at Coriell Life Sciences by investing in rigorous research, literature review, and technology improvements to ensure that our tools and services offer the best answers to evolving challenges. One of our key research partners is the storied Coriell Institute for Medical Research, founded in 1953, widely recognized for their dedication to studying the human genome and precision medicine.

About Us

Coriell Life Sciences believes in better health for all through the power of personalized medicine. We are trusted providers of and proven leaders in pharmacogenetic analysis and reporting. We translate genetic knowledge into solutions that drive real results for real people. Visit us at coriell.com to learn more.

Just Ask: info@coriell.com, 888-415-7834

References

1. <https://psnet.ahrq.gov/primers/primer/23/Medication-Errors-and-Adverse-Drug-Events>