



deliver happiness, faster.
smarter.
pain-free.

blood brain barrier
B3GX
genomics

LUMINUS
DIAGNOSTICS

insights and solutions for prescribing

Your **B3GX REPORT™** will contain suggested medications and doses that are based on your unique patient's genetic profile. Get your patient on the fast-track to stronger mental health with a *fast, pain-free genetic test.*

CLINICIAN BENEFITS

Our **B3GX REPORT** can help reduce adverse drug reactions by providing you with a risk analysis of your patient's current drug regimen and access to a dashboard that will enable you to model alternative medication plans in real-time.

By providing you with real-time risk analysis of your patient's current drug regimen, you will be able to model alternative medication plans to prevent potential future adverse drug reactions.

Traditional methods require trial & error prescribing, which is not the safest, and most effective method for treating patients who are dealing with central nervous system (CNS) disorders and diseases.

Illuminating insights for informed patient decision making.

- evidence-based
- clinically proven
- simple cheek swab
- pain-free
- advanced genetic guidance



Timely and accurate results backed by a **world-class technology platform** built with the **physician-patient relationship** at the top of mind.

SAMPLE REPORT RECOMMENDATIONS

PHARMACOGENETIC RESPONSE REPORT

Genetic Summary

Gene	Activity †	Gene	Activity †
ANKK1	Normal Function	CYP2D6	Intermediate Metabolizer
BDNF	Normal Function	CYP3A4	Uncertain
COMT (Val158Met)	Uncertain Function	CYP3A5	Poor Metabolizer
CYP1A2	Extensive Metabolizer, Ultrarapid Metabolizer, Unknown Metabolizer	Factor V Leiden	See Thrombosis Profile
CYP2B6	Extensive Metabolizer	MTHFR (A1298C)	See Thrombosis Profile
CYP2C19	Intermediate Metabolizer	MTHFR (C677T)	See Thrombosis Profile
CYP2C9	Poor Metabolizer, Not EM	OPRM1 (A118G)	Normal Function

unique and personalized recommendations

multi-option reporting format

ANTIDEPRESSANT EXAMPLE

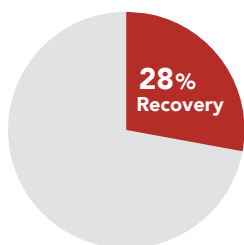
Learn more about the science behind the **B3Gx REPORT** antidepressant guidance tool:

CLINICAL STUDIES

It can take months (sometimes years) to find the right antidepressant and dose. At least 3 weeks must pass before antidepressant efficacy can be determined. There is currently only a 50% success rate for antidepressant medications.

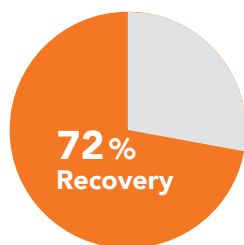
B3Gx antidepressant guidance' Randomized Controlled Trial (RCT) of 148 patients with DSM-5 defined Major Depressive Disorder (MDD) found a remission rate of 72% for genetically guided dosing versus 28% for unguided dosing. The science is further evidenced by a tenure-track academic-led concordance study.

Unguided Prescribing



Trial and Error

Guided Prescribing



what this means?



Greater chance of remission

Another clinical study investigated genetic guidance in MDD with an open-label, prospective trial of desvenlafaxine. At the completion of the trial, the dose needed to remit was compared with the predicted dose needed to remit derived from the proprietary algorithm. Sensitivity and specificity was $\geq 85\%$.

CASE EXAMPLES

Polypharmacy: with over 50% of US Adults taking two or more medications and 28% being hospitalized due to adverse drug interactions, polypharmacy issues are on the rise. Amplis Report reduces the likelihood of adverse drug interactions and provides you with medication risks based on your patient's genetics and lifestyle factors to help guide your prescription decisions.

General Medical Conditions: 80% of patients with diabetes and 45% with coronary artery disease will experience depression but it can take months to find relief. B3Gx provides you with an analysis of your patient's medication profile to fulfill your prescriber needs.

Mental Health Conditions: the leading cause of disability in the US. Moreover, depression is a common co-occurrence with other mental health conditions such that 57% of US adults with schizophrenia have comorbid depression. Amplis is based upon a cutting-edge knowledge of both liver and blood-brain-barrier metabolism to help you find more effective medications fast.