

DOB: 1956-01-01 Clinician: Ima Test Order No: SA0000001-A01

Pharmacogenomic Test



Sample Analysis: Jan. 28, 2022 11:25 EST Sample Collection: Jan. 01, 2022 22:13 EST

For patients, consult your healthcare provider prior to any medication or dose changes.

This pharmacogenomics report is based on genotypes analyzed by Phenomics Health and the patient's currently available medication list to support clinical treatment decisions.

*Current medications: ARIPIPRAZOLE, ATORVASTATIN, CLOPIDOGREL, ESCITALOPRAM, GLIPIZIDE, METOPROLOL, TRAMADOL

Cardiovascular, Metabolic, and Gastrointestinal Agents **Antidepressants** and Anxiolytics

Analgesics and Other CNS Agents **Antipsychotics and Anticonvulsants**

PRESCRIBE AS DIRECTED

Amlodipine (Norvasc®)

Amiodarone (Cordarone®,

Pacerone®)

Apixaban (Eliquis®)

Atenolol (Tenormin®)

*Atorvastatin (Lipitor®)

Bisoprolol (Zebeta®) Carvedilol (Coreg®)

Dexlansoprazole (Dexilant®)

Esomeprazole (Nexium®)

Fluvastatin (Lescol®)

Glimepiride (Amaryl®)

*Glipizide (Glucotrol®)

Glyburide (Diabeta®,

Micronase®)

Labetalol (Normodyne®,

Trandate®)

Losartan (Cozaar®)

Nebivolol (Bystolic®)

Nifedipine (Procardia® XL)

Ondansetron (Zofran®)

Propranolol (Inderal®)

Rabeprazole (AcipHex®)

Rivaroxaban (Xarelto®)

Rosuvastatin (Crestor®)

Simvastatin (Zocor®)

Ticagrelor (Brilinta®)

Torsemide (Demadex®)

Tropisetron (Novoban®)

Valsartan (Diovan®)

Verapamil (Calan®, Isoptin®,

Verelan®)

Alprazolam (Xanax®)

Amoxapine (Asendin®)

Bupropion (Wellbutrin SR®)

Buspirone (BuSpar®)

Citalopram (Celexa®)

Clobazam (Onfi®)

Clonazepam (Klonopin®)

Desvenlafaxine (Pristig®)

Diazepam (Valium®)

Duloxetine (Cymbalta®)

*Escitalopram (Lexapro®)

Esketamine (Spravato®)

Eszopiclone (Lunesta®)

Ketamine (Ketalar®)

Lorazepam (Ativan®)

Fluoxetine (Prozac®) Fluvoxamine (Luvox®)

Imipramine (Tofranil®)

Mirtazapine (Remeron®)

Oxazepam (Serax®)

Paroxetine (Paxil®)

Protriptyline (Vivactil®)

Temazepam (Restoril®)

Trazodone (Desyrel®)

Trimipramine (Surmontil®)

Zolpidem (Ambien®)

Buprenorphine (Subutex®)

Celecoxib (Celebrex®)

Clonidine (Catapres®)

Dexmethylphenidate (Focalin®)

Dextroamphetamine(Adderall®)

Diclofenac (Voltaren®)

Fentanyl (Sublimaze®)

Flurbiprofen (Ansaid®)

Guanfacine (Intuniv®)

Hydromorphone (Exalgo®)

Ibuprofen (IBU, Motrin®)

Indomethacin (Indocin SR)

Lisdexamfetamine (Vyvanse®)

Lofexidine (Lucemyra®)

Lornoxicam (Xefocam®)

Meloxicam (Mobic®)

Methadone (Dolophine®,

Methadose®)

Methylphenidate (Concerta®)

Morphine (MS Contin®)

Naloxone (Narcan®)

Naltrexone (ReVia®)

Naproxen (Naprosyn®)

Oxycodone (Roxicodone®)

Piroxicam (Feldene®)

Tenoxicam (Mobiflex®)

Carbamazepine (Epitol®,

Tegretol®)

Cariprazine (Vraylar®)

Chlorpromazine (Thorazine®)

Clozapine (Clozaril®,

FazaClo®)

Fluphenazine (Prolixin®)

Lurasidone (Latuda®)

Olanzapine (Zyprexa®)

Paliperidone (Invega®)

Phenytoin (Dilantin®)

Pimozide (Orap®)

Primidone (Mysoline®)

Quetiapine (Seroquel®)

Risperidone (Risperdal®)

Thioridazine (Mellaril®)

Topiramate (Topamax®,

Topiragen®)

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Pharmacogenomic Test

James Doe

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Cardiometabolic and **Gastrointestinal Agents**

Antidepressants and Anxiolytics

Analgesics and Other CNS Agents **Antipsychotics and Anticonvulsants**

GENE-DRUG INTERACTIONS MAJOR

*Clopidogrel (Plavix®)	3,5	Amitriptyline (Elavil®)	5	Donepezil (Aricept®)	4	Brexpiprazole (Rexulti®)	
Lovastatin (Mevacor®)	2	Clomipramine (Anafranil®)	5	Codeine (Fioricet®)	4	Brivaracetam (Briviact®)	
Meclizine (Antivert®,		Desipramine (Norpramin®)	2, 5	*Tramadol (Ultram®)	3	Fosphenytoin (Cerebyx®)	1,3
Bonine®)	4	Vilazodone (Viibryd®)	3			Haloperidol (Haldol®)	
Metoclopramide (Reglan®)	2,4					lloperidone (Fanapt®)	
Pravastatin (Pravachol®)	2					Lamotrigine (Lamictal®)	
Repaglinide (Prandin®)	2					Ziprasidone (Geodon®)	
Timolol (Betimol®)	4						

MODERATE GENE-DRUG INTERACTIONS

Diltiazem (Cardizem®, Diltzac®, Taztia XT®, Tiazac®) 3,5 Flecainide (Tambocor®) 4 Irbesartan (Avapro®) 4 Lansoprazole (Prevacid®) 4 *Metoprolol (Lopressor®) 4 Nateglinide (Starlix®) 2 Omeprazole (Zofran®) 4 Pantoprazole (Protonix®) 4 Propafenone (Rythmol®) 4 Ranolazine (Ranexa®) 4 Warfarin (Coumadin®, Jantoven®) 3	Doxepin (Sinequan®) Nortriptyline (Pamelor®) Sertraline (Zoloft®) Venlafaxine (Effexor XR®) Vortioxetine (Trintellix®)	1,4 5 4 4 4	Amphetamine(Adderall®) Atomoxetine (Strattera®) Hydrocodone (Lorcet HD®, Lortab®, Norco®) Galantamine Lithium (Eskalith®, Lithobid®)	2,4 3 4 2	*Aripiprazole (Abilify®) Oxcarbazepine (Trileptal®) Perphenazine (Trilafon®) Valproic Acid (Depakene®)	2,4 1,2 2,4 2
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CLINICAL IMPACT

- 1. Medication is contraindicated by the FDA for this genotype.
- Genotype may result in higher risk for adverse drug reactions.
- Genotype may result in reduced efficacy.

- 4. Higher systemic concentrations may require lower doses.
- 5. Lower systemic concentrations may require higher doses.
- 6. Medication efficacy is based on clinical values other than genotype.

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MEDICATIONS AFFECTED BY MAJOR INTERACTIONS

Medication	Genes	Recommendations	Source
Amitriptyline	CYP2C19, CYP2D6	Avoid use. If warranted, consider a 50% reduction of recommended starting dose. Utilize therapeutic drug monitoring to guide dose adjustments.	CPIC
December 1	CYP2D6	Use half the standard dose.	DPWG
Brexpiprazole	DRD2	May cause significant variability in response. Avoid use.	Ref 8
Brivaracetam	CYP2C19	May have higher systemic concentrations and higher adverse reaction risk.	FDA
Clomipramine	CYP2C19, CYP2D6	Avoid use. If warranted, consider a 50% reduction of recommended starting dose. Utilize therapeutic drug monitoring to guide dose adjustments.	CPIC
*Clopidogrel	CYP2C19	Consider alternative antiplatelet therapy (e.g., prasugrel, ticagrelor).	CPIC
Codeine	CYP2D6	Avoid codeine use because of possibility of diminished analgesia. If opioid use is warranted, consider a non-tramadol opioid.	CPIC
	OPRM1	May cause a decrease in drug efficacy	Ref 10, 11
Desipramine	CYP2D6	Avoid use. If warranted, consider a 50% reduction of recommended starting dose. Utilize therapeutic drug monitoring to guide dose adjustments.	CPIC
Donepezil	CYP2D6	Alters systemic concentration	FDA
Fosphenytoin	CYP2C9, HLA-B	If patient is phenytoin-naïve, do not use phenytoin/ fosphenytoin. Avoid carbamazepine and oxcarbazepine.	CPIC
Haloperidol	CYP2D6	Reduce dose by 50% or select alternative drug (e.g., flupenthixol, fluphenazine, quetiapine, olanzapine, clozapine).	DPWG
lloperidone	CYP2D6	Greater risk for higher systemic concentrations and higher adverse reaction risk (QT prolongation). Reduce dose by 50%.	FDA



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MEDICATIONS AFFECTED BY MAJOR INTERACTIONS

Medication	Genes	Recommendations	Source
Lamotrigine	ABCB1	May cause a variable drug response. Consider an alternative	Ref 1, 2, 3
Lovastatin	SLCO1B1	May increase risk of statin-related myopathy	CPIC
Meclizine	CYP2D6	May affect systemic concentrations. Monitor for adverse reactions.	FDA
Metoclopramide	CYP2D6	Potential increase in the risk for adverse reactions, reduce dose.	FDA
Omeprazole	CYP2C19	Initiate standard starting daily dose. For chronic therapy (>12 weeks) and efficacy achieved, consider 50% reduction in daily dose and monitor for continued efficacy.	CPIC
Pravastatin	CYP3A4	May reduce drug response	CPIC
Repaglinide	SLCO1B1	May cause an increased risk of adverse drug reaction. Consider an alternative.	Ref 4, 5
Timolol	CYP2D6	May require a lower dose due to increased systemic concentrations	Ref 6
*Tramadol	CYP2D6	Avoid use because of possibility of diminished analgesia. If opioid use is warranted, consider a non-codeine opioid.	CPIC
Vilazodone	ABCB1	May require a lower dose due to an increase in drug exposure	Ref 7, 8
Ziprasidone	DRD2	May cause a decrease in drug efficacy	Ref 8, 9



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MEDICATIONS AFFECTED BY MODERATE INTERACTIONS

	MEDICATIONS AFFECTED BY MODERATE INTERACTIONS						
Medication	Genes	Recommendations	Source				
Amphetamine	CYP2D6	May affect systemic concentrations and adverse reaction risk. Consider lower starting dosage or use alternative agent.	FDA				
*Aripiprazole	CYP2D6	Reduce maximum dose to 10 mg/day or 300mg/month (67% of the maximum recommended dose).	DPWG				
Atomoxetine	CYP2D6	CHILD: Initiate with a dose of 0.5 mg/kg/day and if no clinical response and in the absence of adverse events after 2 weeks, consider a proportional dose increase. If unacceptable side effects are present at any time, consider a reduction in dose. ADULT: Initiate with a dose of 40 mg/day and if no clinical response and in the absence of adverse events after 2 weeks increase dose to 80 mg/day. If response is inadequate after 2 weeks consider a proportional dose increase. If unacceptable side effects are present at any time, consider a reduction in dose.	CPIC				
Diltiazem	CYP3A5	May require a lower dose due to decreased drug metabolism	Ref 15, 20				
Doxepin	CYP2C19, CYP2D6	Avoid use. If warranted, consider a 50% reduction of recommended starting dose. Utilize therapeutic drug monitoring to guide dose adjustments.	CPIC				
Flecainide	CYP2D6	Reduce the dose to 50% of the standard dose and record an ECG.	DPWG				
Galantamine	CYP2D6	Results in higher systemic concentrations. Titrate dosage based on tolerability.	FDA				
Hydrocodone	CYP2D6	Use label recommended age- or weight-specific dosing. If no response and opioid use is warranted, consider non-codeine and non-tramadol opioid.	CPIC				
Irbesartan	CYP2C9	May require a lower dose due to decreased drug metabolism	Ref 16, 19, 30				
Lansoprazole	CYP2C19	Initiate standard starting daily dose. For chronic therapy (>12 weeks) and efficacy achieved, consider 50% reduction in daily dose and monitor for continued efficacy.	CPIC				
Amphetamine	DRD2	May affect systemic concentrations and adverse reaction risk. Consider lower starting dosage or use alternative agent.	FDA				
Lithium	CACNA1C	May cause an increased risk of adverse drug reaction. Avoid use	Ref 17, 22, 24, 28				
*Metoprolol	CYP2D6	If a gradual reduction in heart is desired, or in the event of symptomatic bradycardia, increase the dose in smaller steps and/or prescribe no more than 25% of the standard dose.	DPWG				

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Medication	Genes	Recommendations	Source
Nateglinide	SLCO1B1	May cause an increased risk of adverse drug reaction. Consider an alternative.	Ref 3, 4
Nortriptyline	CYP2D6	Avoid use due to potential for side effects. Consider alternative drug not metabolized by CYP2D6 (e.g., escitalopram). If a nortriptyline is warranted, consider a 50% reduction of recommended starting dose. Utilize therapeutic drug monitoring to guide dose adjustments.	CPIC
Omeprazole	CYP2C19	Initiate standard starting daily dose. For chronic therapy (>12 weeks) and efficacy achieved, consider 50% reduction in daily dose and monitor for continued efficacy.	CPIC
Oxcarbazepine	HLA-B	If patient is oxcarbazepine naïve, do not use oxcarbazepine.	CPIC
Pantoprazole	CYP2C19	Initiate standard starting daily dose. For chronic therapy (>12 weeks) and efficacy achieved, consider 50% reduction in daily doe and monitor for continued efficacy.	CPIC
Perphenazine	CYP2D6	Greater risk of side effects due to higher drug concentrations	FDA
Propafenone	CYP2D6	Reduce the dose to 30% of the standard dose, perform an ECG and monitor plasma concentrations.	DPWG
Ranolazine	CYP2D6	May cause increased systemic concentrations and risk of adverse drug reaction. Consider an alternative	Ref#
Sertraline	CYP2C19 HTR2A	Initiate therapy with recommended starting dose (25mg/d or 50mg/d, depending on age and indication). May cause an increased risk of adverse drug reaction. Consider an alternative	CPIC Ref 6, 8, 9
Valproic Acid	CPS1	May cause an increased risk of severe adverse drug reaction. Avoid use	Ref 20
RefVenlafaxine	CYP2D6	Select alternative drug not predominantly metabolized by CYP2D6 (e.g., escitalopram) or reduce the dose and monitor patient's plasma metabolite level.	DPWG
Vortioxetine	CYP2D6	Greater risk of higher systemic concentrations. The maximum recommended dose is 10 mg/d.	FDA
Warfarin	VKORC1, CYP2C9, CYP4F2	Calculate warfarin dose using a validated pharmacogenetic algorithm (e.g., http://warfarindosing.org). May require a 5 - 10% increase in dose among individuals of European ancestry	CPIC

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PATIENT GENETICS

Gene	Genotype		Phenotype
ABCB1		A/A, A/A, A/A	Normal Function
ADRA2A	rs1800544	C/C	Decreased Function
BDNF		C/C	Normal Function
CACNA1C		G/G, G/G	Normal Function
COMT	rs4680	A/A	Decreased Function
CPS1		T/T	Normal Function
CYP1A2		*1/*1	Normal Function
CYP2B6		*1/*1	Normal Function
CYP2C9		*1/*1	Normal Function
CYP2C19		*1/*1	Normal Function
CYP2D6	rs1135840, rs16947	2N *1/*2	Increased Function
CYP3A4		*1/*1	Normal Function
CYP3A5		*1/*1	Normal Function
CYP4F2		*1/*1	Normal Function
DRD2		T/T	Normal Function
GRIK1		C/C	Normal Function
GRIK4	rs1954787	C/C	Increased Function
HLA-A	rs1061235	*31:01	Increased Risk
HLA-B	rs10484555, rs144012689	*15:02	Increased Risk
HTR2A		C/C, G/G, C/C, C/C, G/G, G/G	Normal Function
HTR2C		C/C, C/C	Normal Function
MC4R		C/C	Normal Function
OPRM1	rs1799971	G/G	Decreased Function
SLCO1B1	rs4149056	*5/*5	Decreased Function
UGT 1A1	rs35350960	*27/*27	Decreased Function
UGT 2B15		*1/*1	Normal Function
VKORC1	rs9923231	*2/*2	Decreased Function

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TEST PANEL INFORMATION

The PredictScript™ diagnostic assay is based on evidence from clinical trials and scientific literature. Detailed information about references is available upon request, and from www.phenomicshealth.com/references. Results from studies of the genetic basis of drug response variation and adverse drug events have been examined in hundreds of thousands of curated patient samples and updated based on measures of scientific and clinical validity. In parallel, ongoing pharmacometabolomic analyses from the Company's proprietary PrecīsMed® diagnostic platform can help power improvements in accuracy and inform the validation of the PredictScript™ assay.

Primary information on single nucleotide polymorphisms (SNPs), copy number variants (CNVs), and other genome variants were referenced from clinical significance Reference SNP reports of the National Center for Biotechnology Information (NCBI), National Library of Medicine (NLM), and National Institutes of Health (NIH)9. These include results from the Human Genome Variation Society¹⁰, the reference genome browser of the University of California Santa Cruz¹¹, and the Clinical Genome consortium⁵.

Genotypes specified by rsID numbers are informed by the NCBI of the NIH and, where applicable, star (*) alleles as described on Phenomics Health Inc. web portal. All genotype data are translated from star allele nomenclature into rsID numbers, based on standards used in clinical genetics^{6,7}. Star alleles are also provided to increase usability; however, star allele haplotypes and diplotypes were derived based on patients of European ancestry and may not be applicable to all patients. Assignment of variants to specific genes is provided for reference only, as polymorphisms located in a specified gene may not always be indicative of the function of the gene in which it is located.

The following genetic variants are evaluated in this test: CYP1A2 (rs762551, rs2069514, rs12720461, rs35694136, rs2069526, rs72547511, rs72547513, rs11631198, rs2093434, rs2470890, rs2134688. rs3818740); CYP2B6 (rs2279343, rs3745274, rs28399499, rs11083595, rs8109525, rs2054675); CYP2C9 (rs1799853, rs1057910, rs56165452, rs28371686, rs9332131, rs7900194, rs28371685, rs9332239); CYP2C19 (rs4244285, rs4986893, rs28399504, rs56337013, rs12248560, rs77957608, rs61886222); CYP2D6 (rs28371706, rs1065852, rs1135840, rs16947, rs3892097, rs769258, rs5030862, rs201377835, rs5030867, rs765776661, rs5030656, rs35742686, rs72549353, rs5030655, rs774671100, rs1080985, rs59421388, rs28371725); CYP3A4/CYP3A5 (rs2740574, rs35599367, rs776746, rs10264272, rs17161937, rs41303343); CYP4F2 (rs2108622); ABCB1 (rs1128503, rs2032582, rs1045642); ADRA2A (rs1800544); BDNF (rs6265); CACNA1C (rs3819536, rs2007004); COMT (rs4680); CPS1 (rs715); DRD2 (rs1799978); GRIK1 (rs2832407); GRIK4 (rs1954787, rs12800734); HLA-A (rs1116221, rs2523979, rs1061235); HLA-B (rs10484555, rs144012689); HTR2A (rs6311, rs6305, rs9316233, rs2770296, rs6313, rs6314); HTR2C (rs3813929, rs518147); MC4R (rs489693); OPRM1 (rs1799971); SLCO1B1 (rs4149056); UGT1A1 (rs4148323, rs35350960 rs887829); UGT2B15 (rs1902023); and VKORC1 (rs9923231).

This test does not provide medical advice and is not approved by the U.S. Food & Drug Administration (FDA). Information on pharmacogene variants specified by the FDA^{1,2}, Clinical Pharmacogenetics Implementation Consortium (CPIC)³, and Dutch Pharmacogenetics Working Group (DPWG) of the European Medicines Agency⁴, including genes involved in absorption, distribution, metabolism, and excretion (ADME), are sourced from Sequence2Script¹². Further information provided by this test may be based on Phenomics Health's interpretation of scientific literature and the pharmacokinetic and pharmacodynamic properties of drugs sourced outside of Sequence2Script. The information provided in this report is believed to be current, accurate, and consistent with available scientific literature and the described research. This information may not necessarily be clinically validated for any specific patient population. The pharmacogenomic technology and report is used to support clinical decisions. The healthcare professional directly managing the patient's care is responsible for all decisions made regarding said patient's care, including prescribing decisions made with consideration for the patient's genetic information.

This test was performed by a lab with CLIA #23D2194915 and approved by the Laboratory Director Srinivas Narayan, Ph.D.

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PATIENT PHARMACOGENE CARD							
Cardiometabolic and Gastrointestinal Agents Clopidogrel Lovastatin Meclizine Metoclopramide Omeprazole Pravastatin Repaglinide Timolol		Phenomics HEALTH	Patient Pharmacogenomic Gene-Drug Interaction Card	Jane Doe			
Analgesics and Other CNS Agents Donepezil Codeine Tramadol	MAJOR GENE-DRUG INTERACTIO		Patient Pha Gene-Drug	Jar			
Antidepressants and Anxiolytics Amitriptyline Clomipramine Desipramine Vilazodone	IG INTERACTIONS	EALTHCARE JALS ONLY	n about medications that our genetics. This may r make clinical decisions for void certain gene-drug	your medication or sing with your			
Antipsychotics and Anticonvulsants Fosphenytoin Haloperidol Iloperidone Lamotrigine Ziprasidone		FOR USE BY HEALT PROFESSIONALS	This card contains information about medications that should be avoided based on your genetics. This may help your healthcare provider make clinical decisions for your medication therapy to avoid certain gene-drug interactions.	Do NOT stop or change you dosage without discussing v healthcare provider			

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