Full Report

Prepared for **Ann Perkins** · Nov 8, 2026 · Version 4.6

WGS · GRCh38 · 30 genes · 120 medications

All results, summarized. Use the detailed report for full source recommendations, evidence, dose calculations and frequencies. Sources may offer different advice.

Not a clinical test. Do not change or stop a medication without your prescriber. Confirm important findings with a clinical-grade test. Missing or undetermined results do not mean normal results.

No known anesthesia risk variant was found. No CPIC-listed malignant-hyperthermia-associated variant was detected in the supplied WGS data. Susceptibility remains uncertain: this targeted screen cannot rule out malignant hyperthermia, and coverage at sites absent from your file could not be verified.

Gene results

GENE	COPIES	GENOTYPE	PHENOTYPE	SCORE
ABCG2		rs2231142G/rs2231142G	Normal Function	-
ADH1B		rs1229984C/rs1229984C	Normal Function	-
AKT1	T T	rs2494732T/rs2494732T	Normal Function	-
ALDH2		rs671G/rs671G	Normal Function	-
BCHE		Reference/Reference	Normal Metabolizer	-
CACNA1S		Reference/Reference	No known risk variants found	-
CHRNA5	G G	rs16969968G/rs16969968G	Normal Function	-
COMT		rs4680A/rs4680A	Decreased Function	-
CYP1A2		*1/*1	Normal Metabolizer	-
CYP2A6		*1/*17	Intermediate Metabolizer	-
CYP2B6		*18+Unknown/*9	Unable to determine	-
CYP2C19		*1/*2	Intermediate Metabolizer	-
CYP2C9		*1/*8	Intermediate Metabolizer	1.5
CYP2D6		*2/*2x2	Ultrarapid Metabolizer	3.0
CYP3A4		*1/*15	Unable to determine	-
CYP3A5		*1/*6	Intermediate Metabolizer	-
CYP4F2		*1/*2	Unable to determine	-
DPYD		Reference/Reference	Normal Metabolizer	2.0
FAAH		rs324420A/rs324420A	Decreased Function	-
GIPR		rs1800437G/rs1800437G	Normal Function	-
GLP1R	C C	rs10305420C/rs10305420C	Typical Response	-
IFNL3	C T	rs12979860C/rs12979860T	Unfavorable Response Genotype	-
NAT2		*4/*5	Intermediate Metabolizer	-
NUDT15		*1/*1	Normal Metabolizer	-
RYR1		Reference/Reference	No known risk variants found	-
SLCO1B1		*31/*37	Decreased Function	-
SULT1A1		*1/*2	Decreased Function	-
TPMT		*1/*1	Normal Metabolizer	-
UGT1A1		*1/*60	Normal Metabolizer	-
VKORC1	G G	-1639G/-1639G	Normal Expression	-

Score: gene activity score, where defined. Glyph fill shows each copy's function; color shows the overall phenotype. Full explanations and typical activity ranges are in the detailed report.

Color shows the overall gene result. Dot fill shows each copy's function; lettered dots show your DNA letters where copy function isn't defined.

Normal / typical / favorable Intermediate / decreased Poor / increased risk Rapid / increased Not determined

All medications

Summaries describe the report's overall guidance. "Use as directed" does not guarantee effectiveness or freedom from side effects. Brand names are shown where available.

Summaries use Gene2Rx wording. Summary sources: CPIC = Clinical Pharmacogenetics Implementation Consortium; DPWG = Dutch Pharmacogenetics Working Group; FDA = U.S. Food and Drug Administration drug information; Gene2Rx = research summary. "Report note" is a report explanation without a source summary. See the detailed report for all sources and recommendations.

CYP2D6 structure (copy number and gene fusions) was measured from sequencing reads. No clear result: CYP2B6 (*18+Unknown/*9: *18 has an unrecognized variant); CYP3A4 (*1/*15: *15 has uncertain function); CYP4F2 (*1/*2: *2 has unknown function).

Antidepressants 14

MEDICATION	GUIDANCE	GENES	SUMMARY
Venlafaxine Effexor XR	Use as directed	CYP2D6	Your body may break down this drug faster than usual, but no dose change is advised. (Summarized from CPIC)
Citalopram Celexa	Use with caution	CYP2C19	Your body may break down the drug more slowly, increasing side effects. Your doctor may use a lower dose or adjust it more slowly. (Summarized from CPIC)
Escitalopram Lexapro	Use with caution	CYP2C19	Your body may break down the drug more slowly, increasing side effects. Your doctor may use a lower dose or adjust it more slowly. (Summarized from CPIC)
Fluvoxamine Luvox	Use as directed	CYP2D6	There is not enough data to know how your genetics affect response to this drug. (Summarized from CPIC)
Paroxetine Paxil, Seroxat	Consider alternative	CYP2D6	Your body clears this drug very fast, so it may not work well. A different drug is usually suggested. (Summarized from CPIC)
Sertraline Zoloft	Use with caution	CYP2C19 CYP2B6	Your body processes this drug a bit more slowly. You can start at the usual dose, but your doctor may raise it slowly. (Summarized from CPIC)
Vortioxetine Trintellix, Brintellix	Consider alternative	CYP2D6	Your body clears this drug very fast, so it may not work as well. A different antidepressant is often suggested, or a higher dose. (Summarized from CPIC)
Amitriptyline Elavil	Consider alternative	CYP2D6 CYP2C19	Your two genes together change how your body handles this drug. It may cause more side effects or not work as well, so a different antidepressant is often suggested. (Summarized from CPIC)
Clomipramine Anafranil	Consider alternative	CYP2D6 CYP2C19	Your two genes together change how your body handles this drug. It may cause more side effects or not work as well, so a different antidepressant is often suggested. (Summarized from CPIC)
Desipramine Norpramin	Consider alternative	CYP2D6	Your body breaks down desipramine much faster than normal, which may make the drug less effective. An alternative medication that is not affected by your CYP2D6 gene may be recommended. (Summarized from CPIC)
Doxepin Sinequan, Quitaxon, Aponal	Consider alternative	CYP2D6 CYP2C19	Your two genes together change how your body handles this drug. It may cause more side effects or not work as well, so a different antidepressant is often suggested. (Summarized from CPIC)
Imipramine Tofranil	Consider alternative	CYP2D6 CYP2C19	Your two genes together change how your body handles this drug. It may cause more side effects or not work as well, so a different antidepressant is often suggested. (Summarized from CPIC)
Nortriptyline Pamelor	Consider alternative	CYP2D6	Your body breaks down nortriptyline much faster than normal, which means the drug may not reach effective levels. A different antidepressant or a higher dose may be needed. (Summarized from CPIC)
Trimipramine Surmontil	Consider alternative	CYP2D6 CYP2C19	Your two genes together change how your body handles this drug. It may cause more side effects or not work as well, so a different antidepressant is often suggested. (Summarized from CPIC)

Antipsychotics 12

MEDICATION	GUIDANCE	GENES	SUMMARY
Aripiprazole Abilify	Use as directed	CYP2D6	Your body clears aripiprazole a little faster, but there is no evidence this makes it work less well. No dose change is needed. (Summarized from DPWG)
Aripiprazole Lauroxil Aristada	Use as directed	CYP2D6	Your CYP2D6 result means higher CYP2D6 activity than usual, but the FDA gives no genetic dosing change for aripiprazole lauroxil at this result. (Summarized from FDA)
Brexpiprazole Rexulti	Use as directed	CYP2D6	Your body clears brexpiprazole a little faster, but there is no sign this makes it work less well. No dose change is needed. (Summarized from DPWG)
Clozapine Clozaril	Use as directed	CYP2D6	Your CYP2D6 result does not change how clozapine should be dosed. (Summarized from DPWG)
Haloperidol Haldol	Use with caution	CYP2D6	Your body clears this drug faster, so the usual dose may not work as well. A higher dose or a different drug is often suggested. (Summarized from DPWG)
Iloperidone Fanapt	Use as directed	CYP2D6	Your body may clear this drug faster than average. The FDA label gives no dose change for your result. (Summarized from FDA)
Perphenazine Trilafon	Use as directed	CYP2D6	Your body processes perphenazine faster than most people, but there is no specific FDA guidance for your genotype. The standard dose is typically used. (Summarized from FDA)
Pimozide Orap	Use as directed	CYP2D6	Your body may clear pimozide a little faster, but there is no evidence it works less well. No dose change is needed. (Summarized from DPWG)
Quetiapine Seroquel	Unable to determine	CYP3A4	We couldn't read your CYP3A4 gene from your data, so we can't tailor advice for this drug. (Report note)
Risperidone Risperdal	Use with caution	CYP2D6	Your body turns risperidone into its active form faster than usual, and it is more likely not to work well for you. Your doctor may choose a different drug or adjust the dose carefully. (Summarized from DPWG)
Thioridazine Mellaril	Use as directed	CYP2D6	Your body processes thioridazine faster than most people, but there is no specific FDA guidance for your genotype. The standard dose is typically used. (Summarized from FDA)
Zuclopenthixol Clopixol	Use with caution	CYP2D6	Your body clears this drug faster than usual, so it may not work as well. If it doesn't, your doctor may raise the dose or try a different drug. (Summarized from DPWG)

Psychostimulants 2

MEDICATION	GUIDANCE	GENES	SUMMARY
Amphetamine Adzenys ER	Use as directed	CYP2D6	Your body processes amphetamine faster than most people, but there is no specific FDA guidance for your genotype. The standard dose is typically used. (Summarized from FDA)
Atomoxetine Strattera	Use with caution	CYP2D6	Your body clears this medicine very quickly, so you may need a higher dose to get the right effect. (Summarized from CPIC)

Movement disorders 3

MEDICATION	GUIDANCE	GENES	SUMMARY
Deutetrabenazine Austedo	Use as directed	CYP2D6	Your body processes deutetrabenazine faster than normal. The standard dose should work as expected. (Summarized from FDA)
Tetrabenazine Xenazine	Use as directed	CYP2D6	Your body processes tetrabenazine faster than average, but no specific dosing changes are recommended. The standard dose should work as expected. (Summarized from FDA)
Valbenazine Ingrezza	Use as directed	CYP2D6	Your body processes valbenazine faster than most people, but there is no specific FDA guidance for your genotype. The standard dose is typically used. (Summarized from FDA)

Anticonvulsants 4

MEDICATION	GUIDANCE	GENES	SUMMARY
Brivaracetam Briviact	Use with caution	CYP2C19	Your body breaks down this drug more slowly, so more of it builds up. This can raise the risk of side effects. (Summarized from FDA)
Clobazam Onfi, Frisium	Use with caution	CYP2C19	Your body breaks down clobazam more slowly than normal, causing higher levels of the drug's active form to build up. A lower dose may be needed to reduce the risk of side effects. (Summarized from FDA)
Fosphenytoin Cerebyx	Use with caution	CYP2C9	Your body clears this drug more slowly, so it can build up and cause nervous system side effects. A lower starting dose and blood level checks are suggested. (Summarized from FDA)
Phenytoin Dilantin	Use with caution	CYP2C9	Your body breaks down this drug more slowly, so it can build up. That raises the risk of side effects on the brain and nerves. (Summarized from FDA)

Pain management 13

MEDICATION	GUIDANCE	GENES	SUMMARY
Carisoprodol Soma	Use as directed	CYP2C19	Your body breaks down carisoprodol slightly slower than normal. The standard dose should work as expected. (Summarized from FDA)
Celecoxib Celebrex	Use as directed	CYP2C9	Your body slows the drug down slightly, but usually the normal starting dose is fine. (Summarized from CPIC)
Codeine Tylenol 3	Consider alternative	CYP2D6	Your body turns codeine into morphine too fast, which can cause dangerous side effects. A different pain reliever is usually suggested. (Summarized from CPIC)
Flurbiprofen Ansaid, Ocufen, Strefen	Use as directed	CYP2C9	Your body slows the drug down slightly, but usually the normal starting dose is fine. (Summarized from CPIC)
Hydrocodone Hysingla ER	Use as directed	CYP2D6	There isn't enough evidence to say whether your result changes how hydrocodone works for you, so the guideline makes no recommendation. (Summarized from CPIC)
Ibuprofen Advil	Use as directed	CYP2C9	Your body slows the drug down slightly, but usually the normal starting dose is fine. (Summarized from CPIC)
Lornoxicam Xefo	Use as directed	CYP2C9	Your body slows the drug down slightly, but usually the normal starting dose is fine. (Summarized from CPIC)
Meloxicam Mobic	Use with caution	CYP2C9	Your body breaks down meloxicam slightly slower than normal. While there is no specific FDA guidance, your doctor may want to monitor you for side effects. (Summarized from FDA)
Oliceridine Olinvyk	Use as directed	CYP2D6	Your body processes oliceridine faster than normal. The standard dose should work as expected. (Summarized from FDA)
Piroxicam Feldene	Use with caution	CYP2C9	Your body breaks down piroxicam more slowly than normal, which can cause higher drug levels. Your doctor may need to adjust your dosing. (Summarized from FDA)
Pitolisant Wakix	Use as directed	CYP2D6	Your body processes this drug faster than average. The FDA gives no dose change for your result, so the usual dose is used. (Summarized from FDA)
Tenoxicam Mobiflex	Use as directed	CYP2C9	Your body slows the drug slightly, but the usual starting dose is still fine. (Summarized from CPIC)
Tramadol Ultram, ConZip	Consider alternative	CYP2D6	Your body turns this drug into its active form too fast, which raises the risk of serious side effects. A different pain medicine is advised. (Summarized from CPIC)

Cardiovascular 7

MEDICATION	GUIDANCE	GENES	SUMMARY
Propafenone Rythmol SR	Use as directed	CYP2D6	Your body processes propafenone faster than most people, but there is no specific FDA guidance for your genotype. The standard dose is typically used. (Summarized from FDA)

MEDICATION	GUIDANCE	GENES	SUMMARY
Hydralazine Apresoline	Use with caution	NAT2	Your body breaks down hydralazine somewhat quickly. You will likely need a higher total daily dose to get a good effect. (Summarized from CPIC)
Carvedilol Coreg, Coreg CR	Use as directed	CYP2D6	Your body processes carvedilol faster than most people, but there is no specific FDA guidance for your genotype. The standard dose is typically used. (Summarized from FDA)
Metoprolol Lopressor, Toprol XL	Use as directed	CYP2D6	Your body may clear metoprolol faster than usual, but there isn't enough evidence to know whether that changes how well it works, so there is no genetic recommendation. (Summarized from CPIC)
Clopidogrel Plavix	Consider alternative	CYP2C19	Your body turns this drug into its active form more slowly, so it may not protect you as well. A different blood thinner is usually suggested. (Summarized from CPIC)
Warfarin Coumadin	Use with caution	CYP2C9 VKORC1 CYP4F2	Your genes suggest a lower dose may be safer. Your doctor can decide. (Report note) **Estimated dose: 3.5-6 mg/day** (lower than typical starting dose). See the detailed report for the calculation and its limitations.
Mavacamten Camzyos	Use with caution	CYP2C19	Your body breaks down mavacamten slightly slower than normal, which may lead to higher drug levels. Your doctor will monitor you closely and adjust the dose based on your response. (Summarized from FDA)

Cholesterol medications 7

MEDICATION	GUIDANCE	GENES	SUMMARY
Atorvastatin Lipitor	Use with caution	SLCO1B1	More of this statin stays in your blood, which can raise the chance of muscle side effects. Your doctor may limit the dose. (Summarized from CPIC)
Fluvastatin Lescol	Use with caution	CYP2C9 SLCO1B1	Your genes make this statin build up in your blood, which can raise the risk of muscle problems. A lower starting dose or a dose limit is suggested. (Summarized from CPIC)
Lovastatin Mevacor	Consider alternative	SLCO1B1	Your genes make this statin build up in your blood, which may raise your risk of muscle problems. A different statin, or a low dose of this one, is often suggested. (Summarized from CPIC)
Pitavastatin Livalo	Use with caution	SLCO1B1	More of this statin stays in your blood, so muscle side effects are more likely. Your doctor may keep the dose low or suggest another statin. (Summarized from CPIC)
Pravastatin Pravachol	Use with caution	SLCO1B1	Your body may process this drug more slowly, so higher doses might carry added risks. (Summarized from CPIC)
Rosuvastatin Crestor	Use as directed	ABCG2 SLCO1B1	Your genes support the usual starting dose of this statin. (Summarized from CPIC)
Simvastatin Zocor	Use with caution	SLCO1B1	More of this statin stays in your blood, so muscle side effects are more likely. Your doctor may use a different statin or a lower dose. (Summarized from CPIC)

Antiemetics 4

MEDICATION	GUIDANCE	GENES	SUMMARY
Dronabinol Syndros	Use with caution	CYP2C9	Your body breaks down dronabinol more slowly than normal, which may cause the drug to build up and increase the risk of side effects. Extra monitoring is recommended. (Summarized from FDA)
Metoclopramide Reglan	Use as directed	CYP2D6	Your body processes metoclopramide faster than normal. The standard dose should work as expected. (Summarized from FDA)
Ondansetron Zofran	Consider alternative	CYP2D6	Your body breaks down this drug very fast, so it may not control nausea and vomiting. A different anti-nausea drug is usually suggested. (Summarized from CPIC)

MEDICATION	GUIDANCE	GENES	SUMMARY
Tropisetron Navoban	Consider alternative	CYP2D6	Your body breaks down this drug very fast, so it may not stop nausea well. A different anti-nausea drug is often suggested. (Summarized from CPIC)

Proton pump inhibitors 4

MEDICATION	GUIDANCE	GENES	SUMMARY
Dexlansoprazole Dexilant	Use with caution	CYP2C19	Your body clears this drug more slowly. A lower dose may be needed for long-term use to prevent side effects. (Summarized from CPIC)
Lansoprazole Prevacid	Use with caution	CYP2C19	Your body clears this drug more slowly. A lower dose may be needed for long-term use to prevent side effects. (Summarized from CPIC)
Omeprazole Prilosec, Losec	Use with caution	CYP2C19	Your body clears this drug more slowly. A lower dose may be needed for long-term use to prevent side effects. (Summarized from CPIC)
Pantoprazole Protonix	Use with caution	CYP2C19	Your body clears this drug more slowly. A lower dose may be needed for long-term use to prevent side effects. (Summarized from CPIC)

Oncology 13

MEDICATION	GUIDANCE	GENES	SUMMARY
Belinostat Beleodaq	Use as directed	UGT1A1	Your body processes belinostat at a normal rate. The standard dose should work as expected. (Summarized from FDA)
Belzutifan Welireg	Use as directed	CYP2C19	Your CYP2C19 result means somewhat lower CYP2C19 activity than usual, but the FDA gives no genetic dosing change for belzutifan at this result. (Summarized from FDA)
Capecitabine Xeloda, Xitabin, Kapetral	Use as directed	DPYD	Your body processes capecitabine normally. You have a typical risk of side effects, and the standard dose is expected to be appropriate. (Summarized from CPIC)
Erdafitinib Balversa	Use as directed	CYP2C9	Your CYP2C9 result means somewhat lower CYP2C9 activity than usual, but the FDA gives no genetic dosing change for erdafitinib at this result. (Summarized from FDA)
Fluorouracil Adrucil, Carac	Use as directed	DPYD	Your body breaks down this drug normally. Your risk of side effects is typical, and the usual dose is used. (Summarized from CPIC)
Gefitinib Iressa	Use as directed	CYP2D6	Your CYP2D6 result means higher CYP2D6 activity than usual, but the FDA gives no genetic dosing change for gefitinib at this result. (Summarized from FDA)
Irinotecan Camptosar, Onivyde	Use as directed	UGT1A1	Your body processes irinotecan at a normal rate. The standard dose should work as expected. (Summarized from FDA)
Mercaptopurine Purinethol	Use as directed	TPMT NUDT15	Both genes that affect this drug look normal, so a standard starting dose is expected. (Summarized from CPIC)
Nilotinib Tasigna	Use as directed	UGT1A1	Your body processes nilotinib at a normal rate. The standard dose should work as expected. (Summarized from FDA)
Pazopanib Votrient	Use as directed	UGT1A1	Your body processes pazopanib at a normal rate. The standard dose should work as expected. (Summarized from FDA)
Sacituzumab Govitecan-Hziy Trodelvy	Use as directed	UGT1A1	Your body processes sacituzumab govitecan at a normal rate. The standard dose should work as expected. (Summarized from FDA)
Thioguanine Lanvis, Tabloid	Use as directed	TPMT NUDT15	Both genes that affect this drug look normal, so a standard starting dose is expected. (Summarized from CPIC)
Tamoxifen Nolvadex, Soltamox	Use as directed	CYP2D6	Your body turns this drug into its active form well. The usual dose should work. (Summarized from CPIC)

Immunosuppressants 4

MEDICATION	GUIDANCE	GENES	SUMMARY
Abrocitinib Cibinqo	Use as directed	CYP2C19	Your body may process this drug a little more slowly. The drug label has no special advice for this, so the usual dose is used. (Summarized from FDA)
Azathioprine Imuran	Use as directed	TPMT NUDT15	Both genes that affect this drug look normal, so a standard starting dose is expected. (Summarized from CPIC)
Siponimod Mayzent	Use with caution	CYP2C9	Your body breaks down siponimod slower than normal, causing the drug to reach higher levels in your system. Your doctor will need to adjust your dose based on your specific genetic profile. (Summarized from FDA)
Tacrolimus Prograf	Use with caution	CYP3A5	Your body breaks down this drug faster than many people do, so the usual dose may fall short. A higher starting dose and blood tests are advised. (Summarized from CPIC)

Antivirals 5

MEDICATION	GUIDANCE	GENES	SUMMARY
Atazanavir Reyataz, Evotaz, Others	Use as directed	UGT1A1	Your chance of getting yellow skin or eyes (jaundice) from this drug is very low. (Summarized from CPIC)
Efavirenz Sustiva	Unable to determine	CYP2B6	The impact of your genotype on response to this drug is unknown (Report note)
Peginterferon Alfa-2A Pegasys	Consider alternative	IFNL3	This hepatitis C drug is less likely to clear the virus for people with your genes. Your doctor may consider a different treatment. (Summarized from CPIC)
Peginterferon Alfa-2B PegIntron	Consider alternative	IFNL3	This hepatitis C drug is less likely to clear the virus for people with your genes. Your doctor may consider a different treatment. (Summarized from CPIC)
Ribavirin Copegus, Rebetol, Virazole	Consider alternative	IFNL3	This hepatitis C treatment is less likely to clear the virus for people with your genes. Your doctor may consider a different treatment. (Summarized from CPIC)

Antifungals 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Voriconazole Vfend	Use with caution	CYP2C19	Your body breaks down this drug more slowly, so levels can rise and side effects are more likely. (Summarized from FDA)

Anesthetics 8

MEDICATION	GUIDANCE	GENES	SUMMARY
Desflurane	No known risk variants found	RYR1 CACNA1S	We checked the known malignant hyperthermia genes in your DNA and found no listed risk variants. This doesn't rule out the risk: about half of people who have had this reaction carry no known variant. Tell your anesthesiologist about any personal or family history of reactions to anesthesia. (Summarized from CPIC)
Enflurane	No known risk variants found	RYR1 CACNA1S	We checked the known malignant hyperthermia genes in your DNA and found no listed risk variants. This doesn't rule out the risk: about half of people who have had this reaction carry no known variant. Tell your anesthesiologist about any personal or family history of reactions to anesthesia. (Summarized from CPIC)
Halothane	No known risk variants found	RYR1 CACNA1S	We checked the known malignant hyperthermia genes in your DNA and found no listed risk variants. This doesn't rule out the risk: about half of people who have had this reaction carry no known variant. Tell your anesthesiologist about any personal or family history of reactions to anesthesia. (Summarized from CPIC)

MEDICATION	GUIDANCE	GENES	SUMMARY
Isoflurane	No known risk variants found	RYR1 CACNA1S	We checked the known malignant hyperthermia genes in your DNA and found no listed risk variants. This doesn't rule out the risk: about half of people who have had this reaction carry no known variant. Tell your anesthesiologist about any personal or family history of reactions to anesthesia. (Summarized from CPIC)
Methoxyflurane	No known risk variants found	RYR1 CACNA1S	We checked the known malignant hyperthermia genes in your DNA and found no listed risk variants. This doesn't rule out the risk: about half of people who have had this reaction carry no known variant. Tell your anesthesiologist about any personal or family history of reactions to anesthesia. (Summarized from CPIC)
Mivacurium Mivacron	Use as directed	BCHE	Your body breaks down this drug normally. Your doctor can use the usual dose. (Summarized from FDA)
Sevoflurane	No known risk variants found	RYR1 CACNA1S	We checked the known malignant hyperthermia genes in your DNA and found no listed risk variants. This doesn't rule out the risk: about half of people who have had this reaction carry no known variant. Tell your anesthesiologist about any personal or family history of reactions to anesthesia. (Summarized from CPIC)
Succinylcholine Quelicin, Anectine	No known risk variants found	RYR1 CACNA1S BCHE	We checked the known malignant hyperthermia genes in your DNA and found no listed risk variants. This doesn't rule out the risk: about half of people who have had this reaction carry no known variant. Tell your anesthesiologist about any personal or family history of reactions to anesthesia. (Summarized from CPIC)

Weight management 3

MEDICATION	GUIDANCE	GENES	SUMMARY
Retatrutide	Use as directed	GLP1R GIPR	You can expect average weight loss on this drug. Your genes also give the lowest chance of stomach side effects. (Summarized from Gene2Rx)
Semaglutide Ozempic, Wegovy	Use as directed	GLP1R	Your genes point to a typical response to this drug, with average weight loss and side effects. (Summarized from Gene2Rx)
Tirzepatide Mounjaro, Zepbound	Use as directed	GLP1R GIPR	Your genes point to typical weight loss on this drug, with the lowest chance of stomach side effects. (Summarized from Gene2Rx)

Antidiabetics 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Nateglinide Starlix	Use as directed	CYP2C9	Your body breaks down nateglinide slightly slower than normal. The standard dose should work as expected. (Summarized from FDA)

Antihistamines 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Meclizine Antivert	Use with caution	CYP2D6	Your body processes meclizine faster than normal, which may affect how well the medication works. Your doctor should monitor you for side effects and whether the drug is effective. (Summarized from FDA)

Drugs used in addictive disorders 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Lofexidine Lucemyra	Use as directed	CYP2D6	Your CYP2D6 result means higher CYP2D6 activity than usual, but the FDA gives no genetic dosing change for lofexidine at this result. (Summarized from FDA)

Female sexual health 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Flibanserin Addyi	Use as directed	CYP2C19	Your CYP2C19 result means somewhat lower CYP2C19 activity than usual, but the FDA gives no genetic dosing change for flibanserin at this result. (Summarized from FDA)

Gaucher's disease treatments 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Eliglustat Cerdelga	Use with caution	CYP2D6	Your body breaks down eliglustat too quickly, which may prevent the drug from reaching levels needed to be effective. Your doctor may need to consider alternative dosing or treatment. (Summarized from FDA)

Gout 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Allopurinol Zyloprim	Use as directed	ABCG2	Your ABCG2 genotype does not change how you respond to allopurinol; standard dosing applies. (Summarized from DPWG)

Hair loss 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Minoxidil Rogaine	Use with caution	SULT1A1	You may turn less minoxidil into its active form, so it may regrow less hair. It can still help. If results are poor, ask your doctor about other options. (Summarized from Gene2Rx)

Saliva production stimulators 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Cevimeline Evoxac	Use as directed	CYP2D6	Your body processes this drug faster than usual. The FDA has no special advice for this, so the usual dose is used. (Summarized from FDA)

Urologicals 1

MEDICATION	GUIDANCE	GENES	SUMMARY
Tolterodine Detrol	Use as directed	CYP2D6	Your CYP2D6 result means higher CYP2D6 activity than usual, but the FDA gives no genetic dosing change for tolterodine at this result. (Summarized from FDA)

Other substances 7

MEDICATION	GUIDANCE	GENES	SUMMARY
Alcohol	Use as directed	ADH1B ALDH2	Your genes have little effect on how your body handles alcohol. (Summarized from Gene2Rx)
Caffeine Coffee, Tea	Use as directed	CYP1A2	Your body clears caffeine at an expected rate. The usual advice on caffeine limits applies. (Summarized from Gene2Rx)
Ketamine Ketalar	Unable to determine	CYP2B6	We cannot tell from this result how your genetics affect ketamine clearance. (Report note)
LSD Acid	Use as directed	CYP2D6	Your result suggests faster clearance of LSD, but no research has looked at this group. (Summarized from Gene2Rx)
MDMA Ecstasy	Use with caution	COMT CYP2D6	Your genotype has been linked to more dizziness, anxiety and sedation after MDMA, and to a larger drop in blood sodium. (Summarized from Gene2Rx)
Nicotine Cigarettes, Zyn	Use with caution	CHRNA5 COMT CYP2A6	This result has been studied in relation to smoking, but the findings are mixed. Some studies found people with it did better when quitting with nicotine replacement. (Summarized from Gene2Rx)

MEDICATION	GUIDANCE	GENES	SUMMARY
THC Cannabis, Marijuana	Use with caution	AKT1 COMT CYP2C9 FAAH	You make less of the enzyme that clears your body's own cannabinoids. What this means for how THC affects you is not settled by the research so far. (Summarized from Gene2Rx)

Coverage depends on your data and report tier. A medication missing here may still have pharmacogenetic guidance. Full source text and references are in the detailed report. Questions: contact@gene2rx.com.