

Pharmacogenetics Report

Patient: PATIENT 1

Kit ID: SAMPLE



INTRODUCTION

Dante Labs Pharmacogenetics Report is for informational purposes only.

This report is NOT intended for US persons. This report was not submitted for approval to the US Food and Drug Administration (FDA).

The Pharmacogenetics Report analyzes a large amount of genomic data, associating genetic variants found in the genomic files with variants known from the scientific literature. While this Report does not require EMA approval, we do want to point out that it has not been reviewed or approved by the EMA for such use.

The genetic analysis and reporting are based on information from one or more published third party scientific and medical studies. We do not independently judge the validity or accuracy of such published scientific information.

Because scientific and medical information changes over time, your risk assessment and genetically tailored prevention for one or more of the medications contained within this report may also change over time.

Therefore, this report may not be 100% accurate (e.g., new research could mean different results) and may not predict actual results or outcomes. A person's risk of any particular phenotype, condition or trait is also based on other factors not yet analyzed in this report (e.g., diet, lifestyle, etc.).

This report may be updated from time to time so that the analysis and reporting incorporates new or changed research or scientific results. Because of this, the reports produced may change over time.

This genetic report should not be used in place of a visit with or advice from your doctor or other qualified healthcare professional. You should always get the advice of your doctor or other appropriate health care professional if you have any question about diagnosis, treatment, prevention, mitigation, or cure of any medical condition, phenotype, condition, impairment, or the status of your health. Do not stop any medications you have been prescribed, start any new medications, or modify any medical treatments ordered by your healthcare provider without first talking with your healthcare provider. If you have any healthcare related questions, please promptly consult your physician or other qualified healthcare provider.

QUICK SUMMARY

MEDICATIONS		
CONDITION NAME	RESULTS	MAIN MESSAGE
Adalimumab	✓	No variants detected
Amisulpride	✓	No variants detected
Amlodipine	✓	No variants detected
Anastrozole	⚠	We found a variant related to your reaction to Anastrozole
Ataluren	✓	No variants detected
Atazanavir	✓	No variants detected
Boceprevir	⚠	We found a variant related to your reaction to Boceprevir
Budesonide	✓	No variants detected
Buprenorphine	✓	No variants detected
Caffeine	✓	No variants detected
Cerivastatin	✓	No variants detected
Cetuximab	⚠	We found a variant related to your reaction to Cetuximab

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MEDICATIONS		
CONDITION NAME	RESULTS	MAIN MESSAGE
Chlorproguanil	✓	No variants detected
Cocaine	✓	No variants detected
Cyclosporine	✓	No variants detected
Dapsone	✓	No variants detected
Daunorubicin	✗	We found a variant related to your reaction to Daunorubicin
Digoxin	⚠	We found a variant related to your reaction to Digoxin
Docetaxel	⚠	We found a variant related to your reaction to Docetaxel
Donepezil	✓	No variants detected
Doxorubicin	⚠	We found a variant related to your reaction to Doxorubicin
Efavirenz	⚠	We found a variant related to your reaction to Efavirenz
Epirubicin	⚠	We found a variant related to your reaction to Epirubicin
Erlotinib	✓	No variants detected
Etanercept	✓	No variants detected
Ethambutol	✗	We found a variant related to your reaction to Ethambutol
Ethanol	✓	No variants detected
Etoposide	✗	We found a variant related to your reaction to Etoposide
Exemestane	⚠	We found a variant related to your reaction to Exemestane
Fluticasone propionate	✓	No variants detected
Fluticasone-salmeterol	✓	No variants detected
Fluvastatin	✓	No variants detected
Furosemide	✓	No variants detected
Glibenclamide	✓	No variants detected
Gliclazide	✓	No variants detected
Glimepiride	✓	No variants detected
Glipizide	✓	No variants detected
Heroin	✓	No variants detected
Hydrochlorothiazide	⚠	We found a variant related to your reaction to Hydrochlorothiazide
Infliximab	✓	No variants detected
Interferon alfa-2b	✓	No variants detected
Isoniazid	✗	We found a variant related to your reaction to Isoniazid
Ivacaftor	✓	No variants detected
Lamotrigine	✓	No variants detected
Latanoprost	✓	No variants detected
Leucovorin	✓	No variants detected
Lopinavir	✓	No variants detected
Lorazepam	✓	No variants detected
Lovastatin	⚠	We found a variant related to your reaction to Lovastatin
Metformin	✓	No variants detected

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MEDICATIONS		
CONDITION NAME	RESULTS	MAIN MESSAGE
Nevirapine	⊖	We found a variant related to your reaction to Nevirapine
Nicotine	✔	No variants detected
Nortriptyline	✔	No variants detected
Olanzapine	✔	No variants detected
Omeprazole	⊖	We found a variant related to your reaction to Omeprazole
Ondansetron	⚠	We found a variant related to your reaction to Ondansetron
Oxazepam	✔	No variants detected
Paliperidone	✔	No variants detected
Panitumumab	✔	No variants detected
Peginterferon alfa-2a	⚠	We found a variant related to your reaction to Peginterferon alfa-2a
Peginterferon alfa-2b	⚠	We found a variant related to your reaction to Peginterferon alfa-2b
Phenprocoumon	⊖	We found a variant related to your reaction to Phenprocoumon
Pravastatin	⚠	We found a variant related to your reaction to Pravastatin
Prednisolone	⊖	We found a variant related to your reaction to Prednisolone
Pyrazinamide	⊖	We found a variant related to your reaction to Pyrazinamide
Quetiapine	✔	No variants detected
Ribavirin	⚠	We found a variant related to your reaction to Ribavirin
Rifampin	⊖	We found a variant related to your reaction to Rifampin
Rituximab	✔	No variants detected
Rosiglitazone	✔	No variants detected
Salbutamol	⚠	We found a variant related to your reaction to Salbutamol
Salmeterol	⚠	We found a variant related to your reaction to Salmeterol
Sildenafil	⚠	We found a variant related to your reaction to Sildenafil
Sirolimus	✔	No variants detected
Spirolactone	✔	No variants detected
Streptomycin	✔	No variants detected
Sunitinib	✔	No variants detected
Trastuzumab	⚠	We found a variant related to your reaction to Trastuzumab
Triamcinolone	✔	No variants detected
Valproic acid	✔	No variants detected
Vincristine	⊖	We found a variant related to your reaction to Vincristine
Ziprasidone	✔	No variants detected
Remifentanyl	✔	No variants detected
Cyclophosphamide	⊖	We found a variant related to your reaction to cyclophosphamide
Abciximab	✔	No variants detected
Enalapril	⊖	We found a variant related to your reaction to Enalapril
Tegafur	⚠	We found a variant related to your reaction to tegafur
Gemcitabine	⚠	We found a variant related to your reaction to Gemcitabine

KEY SUMMARY

The above Summary provides an overview of the predicted risks for the patient. This information is based solely on genotype information and does not replace a doctor visit or a complete patient profile. Additionally, healthcare providers should consider family history, presenting symptoms, current prescriptions, and other factors before making any clinical or therapeutic decisions.



No negative assertion based on your genotype.



We have found one or more variants associated with alterations in your reaction to the medication.



We have found one or more variants potentially associated with an increased risk for side effects.

DETAILED INFORMATION

ANASTROZOLE

Variant found:

- Gene: CYP19A1
- Marker: rs4646
- Genotype: AC

The AC genotype in women with breast cancer who are treated with tamoxifen (with or without anastrozole, cyclophosphamide, docetaxel, doxorubicin, epirubicin, exemestane, fluorouracil, letrozole, paclitaxel, radiotherapy) may have DECREASED treatment EFFICACY in PRE-MENOPAUSAL women and INCREASED treatment EFFICACY in POST-MENOPAUSAL women as compared to patients with the AA genotypes. Other genetic and clinical factors may also influence response to tamoxifen and other treatment regimens in pre- and post-menopausal women with breast cancer.

Anastrozole, sold under the brand name Arimidex among others, is a medication used in addition to other treatments for breast cancer. Specifically it is used for hormone receptor-positive breast cancer. It has also been used to prevent breast cancer in those at high risk. It is taken by mouth. Common side effects include hot flushes, altered mood, joint pain, and nausea. Severe side effects include an increased risk of heart disease and osteoporosis. Use during pregnancy is known to harm the baby. Anastrozole is in the aromatase-inhibiting family of medications. It works by blocking the creation of estrogen.

BOCEPREVIR

Variant found:

- Gene: IFNL3, IFNL4
- Marker: rs12979860