

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
Actaea racemosa Black cohosh	Cardiac drug - Amiodarone	Elevated liver enzymes	Use under supervision of a doctor. Avoid use in high risk.
	Lipid lowering - Atorvastatin - Simvastatin - Pravastatin	Elevated liver enzymes	Use under supervision of a doctor. Avoid use in high risk.

Herb/ Supplement	Drug	Implication	Recommendation
Allium sativum Garlic	Anticoagulants - Apixaban - Dabigatran - Edoxaban - Rivaroxaban - Heparin	Enhance the adverse/toxic effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising.
	Anticoagulant-vitamin K antagonist - Warfarin	Enhance the adverse/toxic effect of the drug	Avoid concomitant use. If needed, monitor for signs and symptoms of bleeding or excessive bruising.
	Antiplatelets - Aspirin - Cilostazol - Clopidogrel - Prasugrel - Ticagrelor	Enhance the adverse/toxic effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising
	Antidiabetic - Glibenclamide - Gliclazide - Glimepiride - Glipizide - Insulin	Increase drug effect, increase risk of hypoglycemia	Use under supervision of a doctor. Monitor for hypoglycemia symptoms
	Antiviral-protease inhibitors - Atazanavir - Darunavir - Lopinavir - Ritonavir	Decrease drug level	Avoid concomitant use.

Remark

The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
<i>Andrographis paniculata</i> (Fah-Talai-Jone)	Antiasthmatic -Theophylline	Decrease drug level	Use with caution under supervision of a doctor
	Anticoagulant-vitamin K antagonist	Increase drug level	Use with caution under supervision of a doctor
	Antidiabetic - Glibenclamide	Increase drug effect	Use with caution under supervision of a doctor
	Anti-inflammatory-NSAIDs - Etoricoxib - Naproxen	Decrease drug level, but increase drug effect	Use with caution under supervision of a doctor
	Chemotherapy - Cisplatin - 5-fluorouracil (5-FU) - Paclitaxel	Increase drug effect	Use with caution under supervision of a doctor

Herb/ Supplement	Drug	Implication	Recommendation
Coenzyme Q-10	Anticoagulant-vitamin K antagonist - Acenocoumarol - Phenprocoumon - Warfarin	Decrease or increase drug effect	Monitor for the altered effects

Remark

The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
<i>Curcuma longa</i> (Kamin-Chan)	Antibiotic - Norfloxacin	Increase drug level	Use with caution or stop if unwanted response occurred
	Anticoagulant-vitamin K antagonist - Warfarin	Increase drug level	Use with caution or stop if unwanted response occurred
	Antiplatelet - Clopidogrel	Increase drug level	Use with caution or stop if unwanted response occurred
	Antidepressant - Fluoxetine	Increase drug effect	Use with caution or stop if unwanted response occurred
	Antihypertensive - Losartan	Increase drug level	Use with caution or stop if unwanted response occurred
	Anti-inflammatory-NSAIDs - Sulindac	Increase drug effect	Use with caution or stop if unwanted response occurred
	Anxiolytic - Midazolam	Increase drug level, but not affect drug action	Use with caution or stop if unwanted response occurred
	Chemotherapy - Docetaxel - Etoposide - Paclitaxel - Tamoxifen	Increase drug level	Use with caution or stop if unwanted response occurred
	Immunosuppressive - Everolimus	Decrease drug level	Use with caution or stop if unwanted response occurred
	Lipid lowering - Rosuvastatin	Increase drug level	Use with caution or stop if unwanted response occurred

Remark

The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
<i>Ginkgo biloba</i> Ginkgo	Anticoagulants - Apixaban - Dabigatran - Edoxaban - Rivaroxaban - Heparin	Enhance the adverse/toxic effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising.
	Anticoagulant-vitamin K antagonist - Warfarin	Enhance the adverse/toxic effect of the drug	Avoid concomitant use. If needed, monitor for signs and symptoms of bleeding or excessive bruising.
	Antiplatelets - Aspirin - Cilostazol - Clopidogrel - Prasugrel - Ticagrelor	Enhance the adverse/toxic effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising
	Antiepileptic - Carbamazepine - Valproic acid	Decrease drug level and drug effect	Use under supervision of a doctor. Monitor closely for drug levels and effectiveness, dose adjustment may be required.
	Anti-inflammatory-NSAIDs - Celecoxib - Diclofenac - Flurbiprofen - Ibuprofen - Indomethacin - Mefenamic Acid - Meloxicam - Piroxicam - Tenoxicam	Enhance the adverse/toxic effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising.
	Antipsychotic - Clozapine	Decrease drug effect	Use under supervision of a doctor. Monitor closely for drug effects, dose adjustment may be required.
	Antiviral - Efavirenz	Decrease drug level and drug effect	Avoid concomitant use or use under supervision of a doctor.
	Hormonal contraceptives	Decrease drug level, contraceptive failure is possible.	Avoid concomitant use.
	Immunosuppressive - Sirolimus - Tacrolimus	Decrease drug level	Monitor closely for drug levels and effectiveness, dose adjustment may be required.

Remark

The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
Panax ginseng Ginseng	Anticoagulants - Apixaban - Dabigatran - Edoxaban - Rivaroxaban - Warfarin - Heparin	Enhance the adverse/toxic effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising.
	Antiplatelet - Aspirin - Cilostazol - Clopidogrel - Prasugrel - Ticagrelor	Enhance the adverse/toxic effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising.
	Antihypertensive - Amlodipine - Losartan	- Decrease drug level - Increase drug level	Use with caution or stop if unwanted response occurred
	Anxiolytic - Midazolam	- Decrease drug level	Use under supervision of a doctor.
	Chemotherapy - Methotrexate - Mitoxantrone	- Increase drug level - Increase drug effect	Use under supervision of a doctor.

Remark

The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
Omega-3 fatty acids Fish oil	Anticoagulants - Apixaban - Dabigatran - Edoxaban - Rivaroxaban - Warfarin - Heparin	Enhance the anticoagulant effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising.
	Antiplatelets - Aspirin - Cilostazol - Clopidogrel - Prasugrel - Ticagrelor	Enhance the antiplatelet effect of the drugs	Monitor for signs and symptoms of bleeding or excessive bruising.
	Targeted Cancer Therapy - Ibrutinib	Enhance antiplatelet effect of the drug	Avoid concomitant use. If needed, monitor for bleeding (eg, easily bruising, blood in stools or urine, prolonged or uncontrolled bleeding)

Herb/ Supplement	Drug	Implication	Recommendation
Senna alexandrina Senna	Cardiac drug - Digoxin	Increase drug toxicity caused by low serum potassium	Avoid concomitant use

Remark

The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
St. John's wort	Antacid - Omeprazole - Esomeprazole - Lansoprazole - Dexlansoprazole - Vonoprazan	Decrease drug level and drug effect.	Avoid concomitant use.
	Anticoagulant-NOACs - Apixaban - Dabigatran - Rivaroxaban	Decrease drug level and drug effect.	Avoid concomitant use.
	Anticoagulant-vitamin K antagonist - Warfarin	Decrease drug level and drug effect.	Avoid concomitant use or use under supervision of a doctor.
	Cardiac drug - Digoxin	- Decrease drug level and drug effect.	- Use under supervision of a doctor and monitor for drug concentration.
	- Dronedarone - Ivabradine - Ranolazine	- Decrease drug level and drug effect.	- Avoid concomitant use.
	Antifungal - Voriconazole	Decrease drug level and drug effect.	Avoid concomitant use.
	Antiviral - Atazanavir - Bictegravir - Darunavir - Dolutegravir - Emtricitabine - Ledipasvir - Nevirapine - Rilpivirine - Sofosbuvir - Tenofovir - Velpatasvir	Decrease drug level and drug effect.	Avoid concomitant use.
	Antipsychotic - Cariprazine - Lurasidone	Decrease drug level and drug effect	Avoid concomitant use.
	Anxiolytic - Alprazolam	Decrease drug effect.	Use under supervision of a doctor.
	Sleep medicine - Zolpidem	Decrease drug level and drug effect.	Avoid concomitant use.

Remark

The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
St. John's wort (cont.)	Serotonergic drugs- antidepressant/psychiatry - Citalopram* - Mirtazapine* - Vortioxetine*	Enhance the serotonergic effect, and decrease drug level.*	Avoid concomitant use. If needed, monitor for signs and symptoms of serotonin syndrome/serotonin toxicity (eg, hyperreflexia, clonus, hyperthermia, diaphoresis, tremor, autonomic instability, mental status changes) and the drug efficacy.
	- Desvenlafaxine - Duloxetine - Escitalopram - Fluoxetine - Fluvoxamine - Imipramine - Melitracen - Nortriptyline - Paroxetine - Sertraline - Trazodone - Venlafaxine	Enhance the serotonergic effect.	Avoid concomitant use. If needed, monitor for signs and symptoms of serotonin syndrome/serotonin toxicity (eg, hyperreflexia, clonus, hyperthermia, diaphoresis, tremor, autonomic instability, mental status changes) and the drug efficacy.
	Chemotherapy - Doxorubicin - Irinotecan - Vincristine	Decrease drug level and drug effect.	Avoid concomitant use.
	Targeted Cancer Therapy - Cobimetinib - Cabozantinib - Dasatinib - Entrectinib - Ibrutinib - Ixazomib - Lapatinib - Nintedanib - Olaparib - Palbociclib - Regorafenib	Decrease drug level and drug effect.	Avoid concomitant use.
	Immunosuppressive - Cyclosporine - Everolimus - Sirolimus - Tacrolimus	Decrease drug level and drug effect.	Avoid concomitant use or use under supervision of a doctor.
	Other substrates of CYP3A4 and P-glycoprotein	Decrease drug level and drug effect.	Avoid concomitant use or use under supervision of a doctor.

Remark

The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.

Future Drug – Herb Interactions

Herb/ Supplement	Drug	Implication	Recommendation
Zingiber officinale Ginger	Antibiotic - Clarithromycin - Ciprofloxacin - Metronidazole	- Increase drug effect. - Increase drug level.	- Use under supervision of a doctor. - Use under supervision of a doctor.
	Anticoagulant-vitamin K antagonist - Warfarin - Phenprocoumon	Increase drug effect and INR, increase risk of bleeding.	Use under supervision of a doctor or avoid concomitant use.
	Antihypertensive - Nifedipine	Increase drug effect.	Use under supervision of a doctor or avoid concomitant use.
	Chemotherapy - Cisplatin	Increase drug effect.	Use under supervision of a doctor or avoid concomitant use.
	Targeted Cancer Therapy - Crizotinib	Increase drug level, leading to severe hepatitis.	Use with caution under supervision of a doctor
	Immunosuppressive - Cyclosporin - Tacrolimus	- Decrease drug level. - Increase drug level.	- Use under supervision of a doctor. - Use under supervision of a doctor or avoid concomitant use.
	Lipid lowering - Atorvastatin	Increase drug effect.	Use under supervision of a doctor.
	Liver protector - Silymarin	Increase drug effect.	Use under supervision of a doctor.

Remark The prediction is based on simply the genetic profile. Other factors such as patient's current condition, kidney and liver function, and drug interaction, etc. may also be considered by the doctor if your medication treatment would be adjusted.