Drug-Gene Testing: BH MedGene Test

การตรวจพันธุกรรมดูการตอบสนองของยา: ชุดตรวจ BH MedGene Test

What is drug-gene testing?

- Drug-gene testing is a test that reports individual medication response and helps to adjust (or personalize) medication. Indeed, some medicine can be effective for one patient but not for another patient or, some patient may experience adverse reactions, due to the difference response to drugs.
- This drug-gene testing covers principal genes which are related to the medication metabolism including 9 genes which are *CYP2D6*, *CYP2C19*, *CYP2C9*, *VKORC1*, *CYP1A2*, *CYP3A4*, *CYP3A5*, *SLCO1B1* and, *OPRM1*.

What are the benefits of drug-gene testing?

- Helps to select and adjust drug dosage to suit each individual
- Improves medical treatment outcomes
- Reduces adverse drug reactions
- Increases treatment safety
- Reduces the time in drug trial-and-error

Who should undergo this test?

- People who are in drug treatment or plan to receive drug treatment.
- People who have chronic diseases and be treated by several medications such as elderly.
- People who wish to know their medication response in order to plan medication management.

What are the limitations of this test?

- Unable to provide any information on a probable drug allergy expressed as skin rash (if you want to test gene for a specific drug allergy, you need to perform additional specific testing).
- This drug-gene testing does not cover all medications

How to use drug-gene testing and what are the restrictions?

Drug-gene testing is performed by a simple cheek swab. Before proceeding to the test, avoid eating and drinking

(except water) and, avoid smoking, teeth brushing, and gum chewing at least one hour before collecting the sample.

Method to collect sample





INF-DRUGS-02312-E-I-T-0422-Rev01

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Which drugs does this test cover?

This test covers more than 140 drugs, which including more than 20 drug groups, comprising e.g. antihistamines, pain reliever drugs, anti-inflammatory drugs, anticoagulants, diabetes medications, drugs in the treatment of gastric acid-related disorders, drugs used in nausea and vomiting, immunosuppressants, medications used in cardiovascular diseases, hypertension and lipid-lowering drugs etc.

The list of drugs is shown in the table below.

Analg Codein	aine	Antihypertensive	Cafergot	psychiatry
		Aliskiren	Eletriptan	Amitriptyline
Cadaia	gesic	Amiodarone	Clobazam	Aripiprazole
	ie.	Amlodipine		Atomoxetine
Fentan		Azilsartan	Anticonvulsant	Bupropion
	3	Carvedilol	Carbamazepine	Citalopram
Hydroc		Clonidine	Lacosamide	Clomipramine
Methad	lone			
Morphi	ne	Diltiazem	Phenytoin	Clonazepam
Oxycor	done	Dronedarone	Valproic	Clozapine
Tramad		Flecainide		Doxepin
Trainas	201	Labetalol	Alzheimer's	Duloxetine
B	the film many set of some	Lidocaine	Donepezil	Escitalopram
	inflammatory	Losartan	Galantamine	Fluoxetine
Celeco			Galantanine	Fluvoxamine
Diclofe	nac	Metoprolol	-	
Ibuprot	fen	Nifedipine	Oncology	Haloperidol
Meloxi	cam	Propafenone	Axitinib	Imipramine
Piroxic		Propranolol	Bortezomib	Mirtazapine
FILOAIG	-0111	Ranolazine	Brentuximab vedotin	Nortriptyline
		Timolol	Cabazitaxel	Olanzapine
	:oagulant/	Verapamil	Dasatinib	Paroxetine
	platelet	verapathi		
Apixab	an		Docetaxel	Perphenazine
Clopide	ogrel	Dyslipidemic	Enzalutamide	Quetiapine
Cilosta		Atorvastatin	Erlotinib	Risperidone
Ticagre		Fluvastatin	Etoposide	Sertraline
		Pitavastatin	Exemestane	Thioridazine
Warfar	in	Rosuvastatin	Gefitinib	Trazodone
		Simvastatin	Ibrutinib	Venlafaxine
Antic	liabetic	Simvastatin		
Chiorp	ropamide		Imatinib	Vortioxetine
Glimep		Infectious disease	Lapatinib	Ziprasidone
Glybur		Boceprevir	Paclitaxel	
oiybai	100	Clarithromycin	Pazopanib	Sleep medicine
		Darunavir	Sorafenib	Alprazolem
Anta		Efavirenz	Sunitinib	Diazepam
	soprazole			
Esome	prazole	Erythromycin	Tamoxifen	Midazolam
Lansop	orazole	Fosamprenavir	Temsirolimus	Zolpidem
Omepr		Indinavir	Vemurafenib	
Pantop		Nevirapine	Vincristine	Others
		Quinine		Caffeine
Rabepr	razole	Terbinafine	Respiratory	Carisoprodol
_		Voriconazole	Dextromethorphan	Melatonin
Naus	ea	voriconazoie		melatonin
vomi	ting medicine		Fluticasone	
Aprepit	tant	Gout/Rheumatology	Salmeterol	
	opramide	Colchicine	2002 1002 000 X 100	
Ondan		Tofacitinib	Men's health	
Undah	secon		Finasteride	
-		Healann	Sidenafil	
Imm	unosuppressive	Urology		
Cyclos	porine	Oxybutynin	Tadalafil	
Everoli		Tolterodine	Tamsulosin	
Sirolim			Vardenafil	
Tacroli	mus			

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myDNA Life Australia Pty Ltd. Patient Information Sheet: myDNA Medication Test. Available from:

https://www.mydna.life/wp-content/uploads/myDNA-Patient-Information-Sheet.pdf [Accessed 21 April 2022].

Last reviewed in April 2022



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