



**MEDICATION  
METABOLISM TEST**





CLIA ID: 07D1036625  
 CT License: CL-0644  
 NY Permit: PFI 8648  
 RI License: LCO-00591  
 CA License: COS 00800405  
 FL License: 800026696

Division of Genomas Inc.

67 Jefferson Street · Hartford CT 06106

Tel: (860) 972-4589 · Fax: (860) 545-4598

E-mail: [LPH@genomas.net](mailto:LPH@genomas.net)

Website: [www.genomas.com/LPH](http://www.genomas.com/LPH)

Patient Name	Gender	LPH ID	Date Of Birth	Ethnicity	Receive Date
One Demo	Unknown	19837	12/30/1951	Unknown	12/20/2005

**CYP2C9**

\*1\*3

Deficient

**CYP2C19**

\*1\*2

Deficient

**CYP2D6**

\*6\*6

Null



**Guidance by Therapeutic Area (% Drugs)**

DRUG  
USAGE  
KEY:



Use



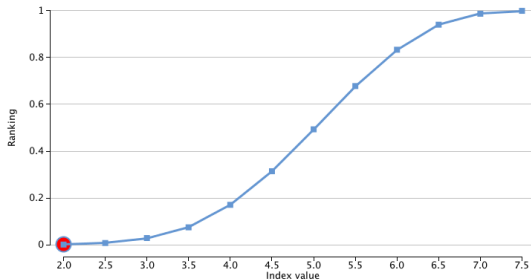
Monitor



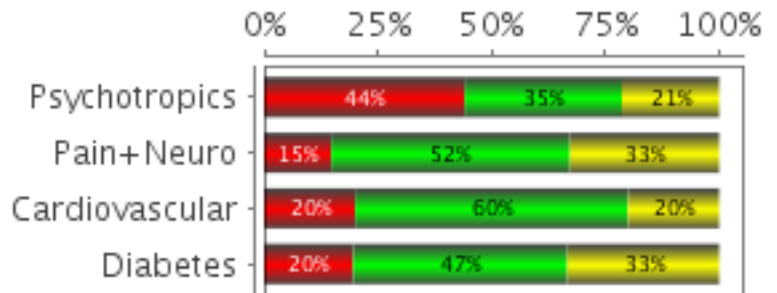
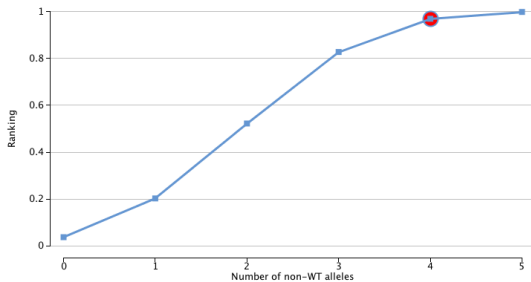
Modify



**Drug Metabolic Reserve Index Curve**



**Allele Alteration Index Curve**



**Drug Interactions at High Risk**

- Aminoglutethimide (*Cytadren*®)
- Amiodarone (*Cordarone*®)
- Bosentan (*Tracleer*®)
- Carbamazepine (*Carbatrol*®)
- Clopidogrel (*Plavix*®)
- Delavirdine (*Rescriptor*®)
- Fluconazole (*Diflucan*®)
- Flurbiprofen (*Ansaid*®)
- Fosphenytoin as phenytoin (*Cerebryx*®)
- Gemfibrozil (*Lopid*®)
- Ibuprofen (*Advil*®)
- Indomethacin (*Indocin*®)
- Isoniazid (*Laniazid*®)
- Ketoconazole (*Nizoral*®)
- Lovastatin (*Mevacor*®)
- Mefenamic acid (*Ponstel*®)
- Modafinil (*Provigil*®)
- Nicardipine (*Cardene*®)
- Omeprazole (*Priosec*®)
- Phenobarbital (*Solfoton*®)
- Phenytoin (*Dilantin*®)
- Piroxicam (*Feldene*®)
- Primidone (*Mysoline*®)
- Rifampin (*Rifadin*®)
- Secobarbital (*Seconal*®)
- Sitaxsentan (*Thelin*®)
- Sulfadiazine (*Lantrisol*®)
- Sulfisoxazole (*Gantrisin*®)
- Ticlopidine (*Ticlid*®)
- Tolbutamide (*Orinase*®)
- Voriconazole (*Vfend*®)



# Portal Express chart for One Demo

## DRUG USAGE KEY:



Use



Monitor



Modify

## Dosage KEY:



Below Normal



Low Normal



High Normal



Above Normal



## MEDtuning / Current Prescribed Medications

- Atorvastatin (*Lipitor*) †
- Eszopiclone (*Lunesta*) †
- Glipizide (*Glucotrol*) †
- Captopril (*Capoten*) †
- Codeine (*Morphine*) †
- Duloxetine (*Cymbalta*) †
- Sildenafil (*Viagra*) †



## Drug Guide

### Antidepressants + Stimulants/ADHD

- Desvenlafaxine (*Pristiq*) †
- Dexmethylphenidate (*Focalin*) †
- Guanfacine (*Intuniv*) †
- Isocarboxazid (*Marplan*) †
- Lisdexamfetamine (*Vyvanse*) †
- Lithium (*Lithobid*) †
- Maprotiline (*Ludiomil*) †
- Phenelzine (*Nardil*) †
- Reboxetine (*Edronax*) †
- Tranylcypromine (*Parnate*) †
- Bupropion (*Wellbutrin*) †
- Escitalopram (*Lexapro*) †
- Levomilnacipran (*Fetzima*) †
- Methylphenidate (*Concerta*) †
- Selegiline (*Emsam*) †
- Vilazodone (*Viibryd*) †
- Amitriptyline (*Elavil*) †
- Amphetamine (*Adderall*) †
- Atomoxetine (*Strattera*) †
- Citalopram (*Celexa*) †
- Clomipramine (*Anafranil*) †
- Clonidine (*Kapvan*) †
- Desipramine (*Norpramin*) †
- Dextroamphetamine (*Dexedrine*) †
- Doxepin (*Sinequan*) †
- Duloxetine (*Cymbalta*) †
- Fluoxetine (*Prozac*) †
- Fluvoxamine (*Luvox*) †
- Imipramine (*Tofranil*) †
- Methamphetamine (*Desoxyn*) †
- Mirtazapine (*Remeron*) †
- Moclobemide (*Manerix*) †
- Nefazodone (*Serzone*) †
- Nortriptyline (*Pamelor*) †
- Paroxetine (*Paxil*) †
- Protriptyline (*Vivactil*) †
- Sertraline (*Zoloft*) †
- Trazodone (*Desyrel*) †
- Trimipramine (*Surmontil*) †
- Venlafaxine (*Effexor*) †
- Vortioxetine (*Brintellix*) †

### Pain + Inflammatory

- Aspirin †
- Dexamethasone (*Decadron*) †
- Eletriptan (*Relpax*) †
- Fentanyl (*Abstral*) †
- Frovatriptan (*Frova*) †
- Hydromorphone (*Dilaudid*) †
- Meloxicam (*Mobic*) †
- Midazolam (*Apo-Midazolam*) †
- Naproxen (*Naprosyn*) †
- Naratriptan (*Amerge*) †
- Oxymorphone (*Opana*) †
- Pregabalin (*Lyrica*) †
- Procain (*Novocain*) †
- Rizatriptan (*Maxalt*) †
- Sumatriptan (*Imitrex*) †
- Tizanidine (*Zanaflex*) †
- Zolmitriptan (*Zomig*) †
- Acetaminophen (*Tylenol*) †
- Almotriptan (*Axert*) †
- Carisoprodol (*Soma*) †
- Celecoxib (*Celebrex*) †
- Cyclobenzaprine (*Amrix*) †
- Diclofenac (*Voltaren*) †
- Ibuprofen (*Advil*) †
- Indomethacin (*Indocin*) †
- Ketamine (*Ketalar*) †
- Morphine (*Avinza*) †
- Piroxicam (*Feldene*) †
- Propofol (*Diprivan*) †
- Tapentadol (*Nucynta*) †
- Codeine (*Morphine*) †
- Hydrocodone (*Lortab*) †
- Lidocaine (*Xylocaine*) †
- Meperidine (*Demerol*) †
- Oxycodone (*oxymorphone*) †
- Tramadol (*Rybitx*) †

### Hypertension + Cholesterol

- Atorvastatin (*Lipitor*) †
- Benazepril (*Lotensin*) †
- Bumetanide (*Bumex*) †
- Candesartan (*Atacand*) †
- Enalapril (*Vasotec*) †
- Ezetimibe (*Zetia*) †
- Fenofibrate (*TriCor*) †
- Fosinopril (*Monopril*) †
- Furosemide (*Lasix*) †
- Gemfibrozil (*Lopid*) †
- Hydrochlorothiazide (*HydroDiuril*) †
- Lisinopril (*Prinivil*) †
- Lovastatin (*Mevacor*) †
- Metolazone (*Zaroxolyn*) †
- Moexipril (*Univasc*) †
- Perindopril (*Aceon*) †
- Pindolol (*Visken*) †
- Pravastatin (*Pravachol*) †
- Quinapril (*Accupril*) †
- Ramipril (*Altace*) †
- Rosuvastatin (*Crestor*) †
- Simvastatin (*Zocor*) †
- Telmisartan (*Micardis*) †
- Trandolapril (*Mavik*) †
- Bisoprolol (*Zebeta*) †
- Bosentan (*Tracleer*) †
- Irbesartan (*Avapro*) †
- Losartan (*Cozaar*) †
- Torsemide (*Demadex*) †
- Valsartan (*Diovan*) †
- Alprenolol (*Aptin*) †
- Captopril (*Capoten*) †
- Carvedilol (*Coreg*) †
- Flecainide (*Tambocor*) †
- Fluvastatin (*Lescol*) †
- Metoprolol (*Lopressor*) †
- Nebivolol (*Bystolic*) †
- Propranolol (*Inderal*) †
- Timolol (*Timoptic*) †

### GI + GU

- Cimetidine (*Tagamet*) †
- Sucralfate (*Carafate*) †
- Tadalafil (*Cialis*) †
- Esomeprazole (*Nexium*) †
- Metoclopramide (*Reglan*) †
- Promethazine (*Phenadoz*) †

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| <ul style="list-style-type: none"> <li>• Dexlansoprazole (<i>Dexilant</i>) †</li> <li>• Probenecid (<i>Benuryl</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Vardenafil (<i>Levitra</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Lansoprazole (<i>Prevacid</i>) †</li> <li>• Rabeprazole (<i>Aciphex</i>) †</li> <li>• Ranitidine (<i>Zantac</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Omeprazole (<i>Prilosec</i>) †‡</li> <li>• Ondansetron (<i>Zofran</i>) †‡</li> <li>• Pantoprazole (<i>Protonix</i>) †‡</li> </ul> | <ul style="list-style-type: none"> <li>• Sildenafil (<i>Viagra</i>) †‡</li> <li>• Tolterodine (<i>Detrol</i>) †‡</li> </ul> |
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### Antipsychotics + Anticonvulsants + Anxiolytics

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|--|---|---|---|---|
| <ul style="list-style-type: none"> <li>• Alprazolam (<i>Xanax</i>) †</li> <li>• Asenapine (<i>Saphris</i>) †</li> <li>• Carbamazepine (<i>Carbatrol</i>) †</li> <li>• Chlordiazepoxide (<i>Librium</i>) †</li> <li>• Clonazepam (<i>Klonopin</i>) †</li> <li>• Clorazepate (<i>Tranxene</i>) †</li> <li>• Felbamate (<i>Felbetol</i>) †</li> <li>• Gabapentin (<i>Neurontin</i>) †</li> <li>• Lacosamide (<i>Vimpat</i>) †</li> <li>• Lamotrigine (<i>Lamictal</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Levetiracetam (<i>Keppra</i>) †</li> <li>• Lorazepam (<i>Ativan</i>) †</li> <li>• Lurasidone (<i>Latuda</i>) †</li> <li>• Mephobarbital (<i>Mebaral</i>) †</li> <li>• Oxazepam (<i>Serax</i>) †</li> <li>• Oxcarbazepine (<i>Trileptal</i>) †</li> <li>• Topiramate (<i>Topamax</i>) †</li> <li>• Ziprasidone (<i>Geodon</i>) †</li> <li>• Zonisamide (<i>Zonegran</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Buspirone (<i>Buspar</i>) †</li> <li>• Clobazam (<i>Onfi</i>) †</li> <li>• Clozapine (<i>Clozaril</i>) †</li> <li>• Diazepam (<i>Valium</i>) †</li> <li>• Flunitrazepam (<i>Rohypnol</i>) †</li> <li>• Mephenytoin (<i>Mesantoin</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Olanzapine (<i>Zyprexa</i>) †</li> <li>• Paliperidone (<i>Invega</i>) †</li> <li>• Phenobarbital (<i>Solfoton</i>) †</li> <li>• Pimozide (<i>Orap</i>) †</li> <li>• Quetiapine (<i>Seroquel</i>) †</li> <li>• Valproic Acid (<i>Depakote</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Aripiprazole (<i>Abilify</i>) †‡</li> <li>• Chlorpromazine (<i>Thorazine</i>) †‡</li> <li>• Dextromethorphan (<i>Benylin</i>) †</li> <li>• Fluphenazine (<i>Prolixin</i>) †‡</li> <li>• Haloperidol (<i>Haldol</i>) †‡</li> <li>• Hydroxyzine (<i>Atarax</i>) †‡</li> <li>• Iloperidone (<i>Fanapt</i>) †‡</li> <li>• Perphenazine (<i>Trilafon</i>) †‡</li> <li>• Phenytoin (<i>Dilantin</i>) †</li> <li>• Risperidone (<i>Risperdal</i>) †‡</li> <li>• Thioridazine (<i>Mellaril</i>) †‡</li> <li>• Zuclopenthixol (<i>Clopixol</i>) †‡</li> </ul> |
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### Neuro + Sleep + Addiction

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|---|---|--|---|---|
| <ul style="list-style-type: none"> <li>• Armodafinil (<i>Nuvigil</i>) †</li> <li>• Buprenorphine (<i>Buprenex</i>) †</li> <li>• Cannabis (<i>tetrahydrocannabinol</i>) †</li> <li>• Carbidopa-levodopa (<i>Sinemet</i>) †</li> <li>• Cocaine †</li> </ul> | <ul style="list-style-type: none"> <li>• Disulfiram (<i>Antabuse</i>) †</li> <li>• Estazolam (<i>ProSom</i>) †</li> <li>• Eszopiclone (<i>Lunesta</i>) †</li> <li>• Flurazepam (<i>Dalmane</i>) †</li> <li>• Modafinil (<i>Provigil</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Naloxone (<i>Narcan</i>) †</li> <li>• Ramelteon (<i>Rozerem</i>) †</li> <li>• Triazolam (<i>Halcion</i>) †</li> <li>• Varenicline (<i>Chantix</i>) †</li> <li>• Zaleplon (<i>Sonata</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Benzotropine (<i>Cogentin</i>) †</li> <li>• Caffeine (<i>Cafcit</i>) †</li> <li>• Donepezil (<i>Aricept</i>) †</li> <li>• Galantamine (<i>Razadyne</i>) †</li> <li>• Methadone (<i>Dolophine</i>) †</li> <li>• Nicotine (<i>Nicorette</i>) †</li> <li>• Temazepam (<i>Restoril</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Diphenhydramine (<i>Benadryl</i>) †‡</li> <li>• Hexobarbital (<i>Citopan</i>) †‡</li> <li>• Zolpidem (<i>Ambien</i>) †‡</li> </ul> |
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### Thrombo + Arrhythmia + Heart Failure

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| <ul style="list-style-type: none"> <li>• Amlodipine (<i>Norvasc</i>) †</li> <li>• Dabigatran (<i>Predaxa</i>) †</li> <li>• Digoxin (<i>Crysdogin</i>) †</li> <li>• Digoxin (<i>Lanoxin</i>) †</li> <li>• Dipyridamole (<i>Persantine</i>) †</li> <li>• Dobutamine (<i>Dobutrex</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Eplerenone (<i>Inspira</i>) †</li> <li>• Felodipine (<i>Plendil</i>) †</li> <li>• Hydralazine (<i>Apresoline</i>) †</li> <li>• Isorsobide mononitrate (<i>Imdur</i>) †</li> <li>• Isosorbide dinitrate (<i>Dilatrate-SR</i>) †</li> <li>• Isradipine (<i>Dynacirc</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Milrinone (<i>Primacor</i>) †</li> <li>• Nisoldipine (<i>Sular</i>) †</li> <li>• Nitroglycerin (<i>Nitro-Dur</i>) †</li> <li>• Spironolactone (<i>Aldactone</i>) †</li> <li>• Ticagrelor (<i>Brilinta</i>) †</li> <li>• Verapamil (<i>Isoptin</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Amiodarone (<i>Cordarone</i>) †</li> <li>• Clopidogrel (<i>Plavix</i>) †</li> <li>• Diltiazem (<i>Cardizem</i>) †</li> <li>• Nicardipine (<i>Cardene</i>) †</li> <li>• Nifedipine (<i>Procardia</i>) †</li> <li>• Prasugrel (<i>Effient</i>) †</li> <li>• Ranolazine (<i>Ranexa</i>) †</li> <li>• Warfarin (<i>Coumadin</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Cilostazol (<i>Pletal</i>) †‡</li> <li>• Mexiletine (<i>Mexitil</i>) †‡</li> <li>• Procainamide (<i>Pronestyl</i>) †‡</li> <li>• Propafenone (<i>Rythmol</i>) †‡</li> <li>• Quinidine (<i>Quinaglute</i>) †‡</li> </ul> |
|--|--|--|--|--|

### Diabetes

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|---|---|---|---|---|
| <ul style="list-style-type: none"> <li>• Acarbose (<i>Precose</i>) †</li> <li>• Exenatide (<i>Byetta</i>) †</li> <li>• Linagliptin (<i>Tradjenta</i>) †</li> <li>• Liraglutide (<i>Victoza</i>) †</li> <li>• Metformin (<i>Fortamet</i>) †</li> <li>• Miglitol (<i>Glyset</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Pramlintide (<i>Symlin</i>) †</li> <li>• Prednisone (<i>Prednisone Intenso</i>) †</li> <li>• Repaglinide (<i>Prandin</i>) †</li> <li>• Saxagliptin (<i>Onglyza</i>) †</li> <li>• Sitagliptin (<i>Januvia</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Chlorpropamide (<i>Diabinese</i>) †</li> <li>• Glimpiride (<i>Amaryl</i>) †</li> <li>• Glipizide (<i>Glucotrol</i>) †</li> <li>• Glyburide (<i>Micronase</i>) †</li> <li>• Nateglinide (<i>Starlix</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Pioglitazone (<i>Actos</i>) †</li> <li>• Rosiglitazone (<i>Avandia</i>) †</li> <li>• Testosterone (<i>Androgel</i>) †</li> <li>• Tolbutamide (<i>Orinase</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Progesterone (<i>Endometrin</i>) †‡</li> <li>• Tamoxifen (<i>Nolvadex</i>) †‡</li> </ul> |
|---|---|---|---|---|

### Asthma

- |   |   |  |  |   |
|---|---|--|--|---|
| <ul style="list-style-type: none"> <li>• Bambuterol (<i>Bambec</i>) †</li> <li>• Cetirizine (<i>Zyrtec</i>) †</li> <li>• Fexofenadine (<i>Allegra</i>) †</li> <li>• Fluticasone (<i>Flovent</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Fluticasone+Salmeterol (<i>Advair</i>) †</li> <li>• Formoterol (<i>Foradil</i>) †</li> <li>• Salmeterol (<i>Serevent</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Loratadine (<i>Claritin</i>) †</li> <li>• Montelukast (<i>Singulair</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Zafirlukast (<i>Accolate</i>) †</li> <li>• Zileuton (<i>Zyflo</i>) †</li> </ul> | <ul style="list-style-type: none"> <li>• Dextromethorphan (<i>Benylin</i>) †</li> </ul> |
|---|---|--|--|---|