

Pharmacogenomic Associations

Pharmacogenomic report results offer valuable insights into how the patient's genetic makeup influences the response to medications which can impact medication efficacy and safety.

Utilizing PharmCAT, Arcensus covers a range of genes including:

ABCG2, CACNA1S, CFTR, CYP2B6, CYP2C19, CYP2C9, CYP3A4, CYP3A5, CYP4F2, DPYD, G6PD, IFNL3, NUDT15, RYR1, SLCO1B1, TPMT, UGT1A1, VKORC1.

POSSIBLE FINDINGS

MEDICATION	GENE
Anti-cancer and immune response	
Azathioprine	NUDT15, TPMT
Capecitabine	DPYD
Fluorouracil	DPYD
Irinotecan	UGT1A1
Mercaptopurine	NUDT15, TPMT
Peginterferon alfa-2a	IFNL3
Peginterferon alfa-2b	IFNL3
Rasburicase	G6PD
Siponimod	CYP2C9
Tacrolimus	CYP3A5
Tegafur	DPYD
Thioguanine	NUDT15, TPMT
Blood and cardiovascular system	
Acenocoumarol	CYP2C9, VKORC1
Atorvastatin	SLCO1B1, ABCG2, CYP2C9
Clopidogrel	CYP1C19
Fluvastatin	SLCO1B1, ABCG2, CYP2C9
Lovastatin	SLCO1B1, ABCG2, CYP2C9

MEDICATION	GENE
Methylene blue	<i>G6PD</i>
Phenprocoumon	<i>CYP2C9, VKORC1</i>
Pitavastatin	<i>SLO1B1, ABCG2, CYP2C9</i>
Pravastatin	<i>SLCO1B1, ABCG2, CYP2C9</i>
Rosuvastatin	<i>SLCO1B, ABCG2, CYP2C9</i>
Simvastatin	<i>SLO1B1, ABCG2, CYP2C9</i>
Warfarin	<i>CYP2C9, CYP4F2, VKORC1</i>
Digestive system	
Dexlansoprazole	<i>CYP2C19</i>
Lansoprazole	<i>CYP2C19</i>
Omeprazole	<i>CYP2C19</i>
Pantoprazole	<i>CYP2C19</i>
Infection control	
Atazanavir	<i>UGT1A1</i>
Dapsone	<i>G6PD</i>
Efavirenz	<i>CYP2B6</i>
Flucytosine	<i>DPYD</i>
Nitrofurantoin	<i>G6PD</i>
Primaquine	<i>G6PD</i>
Ribavirin	<i>IFNL3</i>
Tafenoquine	<i>G6PD</i>
Voriconazole	<i>CYP2C19</i>
Musculo-skeletal system	
Allopurinol	<i>ABCG2, TPMT, NUDT15</i>
Celecoxib	<i>CYP2C9</i>
Flurbiprofen	<i>CYP2C9</i>
Ibuprofen	<i>CYP2C9</i>
Lornoxicam	<i>CYP2C9</i>

MEDICATION	GENE
Meloxicam	CYP2C9
Pegloticase	G6PD
Piroxicam	CYP2C9
Succinylcholine	CACNA1S, RYR1
Tenoxicam	CYP2C9
Nervous system	
Amitriptyline	CYP2C19
Citalopram	CYP2B6, CYP2C19
Clomipramine	CYP2C19
Desflurane	CACNA1S, RYR1
Doxepin	CYP2C19
Enflurane	CACNA1S, RYR1
Escitalopram	CYP2B6, CYP2C19
Fosphenytoin	CYP2C9
Halothane	CACNA1S, RYR1
Imipramine	CYP2C19
Isoflurane	CACNA1S, RYR1
Methoxyflurane	CACNA1S, RYR1
Phenytoin	CYP2C9
Quetiapine	CYP2D6, CYP3A4
Sertraline	CYP2B6, CYP2C19
Sevoflurane	CACNA1S, RYR1
Trimipramine	CYP2C19
Respiratory system	
Ivacaftor	CFTR
Other category	
Toluidine blue	G6PD