

Supplementary Tables:

Supplementary Table 1: Allelic Activity Designations. *CYP2D6* adapted from CPIC guideline [1].

Genes	Low Activity	Normal Activity	High Activity
<i>CYP2D6</i>	CPIC guidance	CPIC guidance	CPIC guidance
<i>CYP3A4</i>	*20,*22	*1	
<i>CYP3A5</i>	*3	*1	
<i>ABCB1</i>	rs1045642	WT	
<i>SLCO1B1</i>	*5 (rs4149056)	*1	
<i>CYP1A2</i>	*1C (rs2069514), *1K (rs762551, rs12720461), *1FC (rs2069514, rs762551)	*1	*1F (rs762551)
<i>CYP2B6</i>	*6, *13, *18	*1, *2	
<i>CYP2C9</i>	*2, *5, *6, *8, *11, *12 (AS = 0.5) *3 (AS = 0)	*1, *9	
<i>CYP2C19</i>	*2, *3, *8	*1	*17
<i>APOE</i>	E2	E3, E4	
<i>COMT</i>	rs4680	*1	
<i>DRD2</i>	rs1800497	*1	
<i>F2</i>	rs1799963	*1	
<i>F5</i>	rs6025	*1	
<i>GLP1R</i>	rs1042044, rs6923761	*1, rs2300615	
<i>MTHFR</i>	rs1801133	*1, rs1801131	
<i>OPRM1</i>	rs1799971	*1	
<i>PNPLA5</i>	rs5764010	*1	
<i>SULT4A1</i>	rs76312	*1	
<i>VKORC1</i>	*2 (rs9923231)	*1	

Supplementary Table 2: Phenotype Activity Designations. *CYP2D6* adapted from CPIC guideline

[1]

Genes	Poor	Intermediate	Normal	Rapid	Ultra-rapid
<i>CYP2D6</i>	CPIC guidance	CPIC guidance	CPIC guidance		CPIC guidance
<i>CYP3A4</i>	L/L	N/L	N/N		
<i>CYP3A5</i>	L/L	N/L	N/N		
<i>ABCB1</i>	L/L	N/L	N/N		
<i>SLCO1B1</i>	L/L	N/L	N/N		
<i>CYP1A2</i>	L/L	N/L or H/L	N/N		N/H or H/H
<i>CYP2B6</i>	L/L	N/L	N/N		
<i>CYP2C9</i>	L/L	N/L	N/N		
<i>CYP2C19</i>	L/L	N/L or H/L	N/N	N/H	H/H
<i>APOE</i>	L/L	N/L	N/N		
<i>COMT</i>	L/L	N/L	N/N		
<i>DRD2</i>	L/L	N/L	N/N		
<i>F2</i>	L/L	N/L	N/N		
<i>F5</i>	L/L	N/L	N/N		
<i>GLP1R</i>	L/L	N/L	N/N		
<i>MTHFR</i>	L/L	N/L	N/N		
<i>OPRM1</i>	L/L	N/L	N/N		
<i>PNPLA5</i>	L/L	N/L	N/N		
<i>SULT4A1</i>	L/L	N/L	N/N		
<i>VKORC1</i>	L/L	N/L	N/N		