

Table S1: HLA risk alleles associations with DHRs

Drug	HLA Risk Allele	Reaction	Ethnic Population	PPV (NPV)*	Key Ref.
Antibiotics					
Amoxicillin-clavulanate	DRB1*15:01	DILI	Caucasian		(1)
	DQB1*0602				
	A*02:01				
Benznidazole	A*11:01	MPE, DRESS	Bolivian	100 (70)	(2)
	A*29:02			100 (70)	
	A*68			48 (84)	
Dapsone	B*13:01	DRESS	Chinese	7.8 (99.8)	(3)
		DRESS, SJS/TEN	Thai		(4)
		DRESS	Taiwanese Malaysian		(5)
Flucloxacillin	B*53:01	DILI	European		(6)
	B*57:01		Caucasian	0.12 (99.99)	(7)
Minocycline	B*35:02	DILI	Caucasian		(8)
Sulfamethoxazole	A*29	SJS/TEN	Caucasian		(9)
	A*30	FDE	Turkish		(10)
	A*30-B*13-C*06				
	A*11:01	SJS/DRESS	Japanese		(11)
	B*13:01	SCAR	Asian	4.05 (99.92)	(12)
		DRESS		3.64 (99.92)	
	B*14:01	DILI	European American		(13)
	B*35:01		African American		(13)
	B*44 (B12 serotype)	SJS/TEN	Caucasian		(9)
	B*38		Caucasian		(14)
DR*07	Caucasian			(9)	
Terbinafine	A*33:01	DILI	European		(15)
Vancomycin	A*32:01	DRESS	Caucasian		(16)
Anticonvulsants					
Carbamazepine	A*02:01	MPE	Han Chinese		(17)
	A*24:02	SJS/TEN	Han Chinese		(18)
	A*31	DRESS,	Japanese		(19)

		SJS/TEN, MPE			
	A*31:01	DRESS	Caucasian	0.77 (99.98)	(20)
			Han Chinese	0.67 (99.97)	(20)
		SJS/TEN	Caucasian		(21)
			Han Chinese		(20)
		DRESS, SJS/TEN	Korean		(22)
	SCAR, DILI	Caucasian		(23)	
	B*15:02	SJS/TEN	Han Chinese	2.24 (99.94)	(20, 24)
			Indian		(25)
			Korean		(24)
			Malaysian		(24)
			Thai		(24, 26)
	B*15:11	SJS/TEN	Taiwanese	93.6 (100)	(27)
			Han Chinese		(18)
	B*15:21	SJS/TEN	Asian	43.8 (95.1)	(28)
			Thai		(26)
	B*51:01	SJS/TEN	Filipino	1.03 (87.5)	(29)
			SJS/TEN		
	B*57:01	DRESS, MPE	Han Chinese		(28)
	B*58:01	SJS/TEN	Caucasian		(30)
	B*58:01	DRESS, MPE	Asian	90.4 (37)	(26, 28)
	DRB1*14:05	MPE	Han Chinese		(17)
Lamotrigine	A*02:07	MPE, DRESS, SJS/TEN	Thai		(31)
	A*24:02, C*01:02	MPE	Korean		(32)
	A*30:01		Han Chinese		(17)
	B*13:02		Thai		(31)
	A*33:03				
	B*44:03				
	A*31:01	DRESS, SJS/TEN	Korean		(33)
	A*68:01	DRESS, SJS/TEN	Caucasian		(34)
	B*15:02	SJS/TEN	Han Chinese		(35)
		DRESS, SJS/TEN, MPE	Thai		(31)
		SJS/TEN	Iranian	78.57 (56.41)	(36)
	B*38	SJS/TEN	Caucasian		(14)
	B*58:01	DRESS, SJS/TEN	Caucasian		(34)
C*07:18					

	DQB1*06				
	DRB1*13				
Oxcarbazepine	A*03:01	MPE	Uighur Chinese		(37)
	B*07:02				
	B*15:02	MPE, SJS/TEN	Han Chinese		(38)
	B*38:02	MPE			(39)
Phenobarbital	B*51:01	SJS/TEN	Japanese		(40)
Phenytoin	B*13:01	SJS/TEN	East Asian		(41)
	B*15:02	SJS/TEN	East Asian		(41)
			Han Chinese		(35)
			Malaysian		(42)
			Thai	33 (100)	(43)
	B*15:13	DRESS, SJS/TEN	Malaysian		(42)
	B*56:02	SJS/TEN	Thai		(44)
		DRESS	Australian Aboriginal		(45)
		Cw*08:01 DRB1*16:02	SJS/TEN	Han Chinese	
Zonisamide	A*02:07	SJS/TEN	Japanese		(40)
Antiretrovirals					
Abacavir	B*57:01	HSS	African	50 (100)	(47)
			Caucasian	50 (100)	(48, 49)
			Hispanic	96 (60)	(50)
Nevirapine	Cw4	DRESS	Han Chinese		(51)
	C*04:01	SJS/TEN	Malawian	2.6 (99.2)	(52, 53)
	C*08	DRESS	Japanese		(54)
	C*08:02, B*14:02	DRESS	Caucasian (Sardinian)		(55)
	B*35:05	Skin Rash	Thai		(56)
	DRB1*01:01	DRESS	Caucasian		(57)
Raltegravir	B*53:01	DRESS	African		(58)
Other drugs					
Acetazolamide	B*59	SJS/TEN	Korean		(59)
Asparaginase	DQB1*02:0 2- DRB1*07:01 - DQA1*02:0 1		European		(60)
	DRB1*02:01	Anaphylaxis		Caucasian	
	DRB1*07:01				(61)
Allopurinol	B*58:01	DRESS,	Caucasian		(62)

		SJS/TEN				
		DRESS	Caucasian (Portuguese)		(63)	
		DRESS, SJS/TEN	Han Chinese	3 (100)	(64)	
		DRESS, SJS/TEN	Korean	2.06 (99.98)	(65)	
		DRESS	Thai	8.26 (100)	(66)	
		MPE, SJS/TEN	Japanese		(62, 67)	
		MPE	Thai	5.13 (99.90)	(66)	
		SJS/TEN	Caucasian		(14, 68)	
			Thai	10.48 (100)	(66)	
	C*03:02	DRESS, SJS/TEN	Korean	1.77 (99.98)	(65)	
	A*33:02	DRESS, SJS/TEN	Korean	0.8 (99.96)	(65)	
Carbimazole/ Methimazole	B*27:05	Agranulocytosis	European		(69)	
	B*38:02		Han Chinese		(69)	
	DRB1*08:03		Han Chinese		(69)	
Fenofibrate	A*33:01	DILI	European		(70)	
Flupirtine	DRB1*15:01	DILI	European		(71)	
Isoxicam	A*02	SJS/TEN	Caucasian		(9)	
	B*12					
Lapatinib	DRB1*07:01	DILI	Caucasian		(72)	
			East Asian			
Lumiracoxib	DRB1*15:01	DILI	Caucasian	8 (98.9)	(73)	
Methazolamide	B*59:01	SJS/TEN	Japanese		(74)	
			Korean			(75)
			Han Chinese			
Methimazole	C*03:02	DILI	Chinese		(77)	
Oxicams	B*73	SJS/TEN	Caucasian		(14)	
Penicillin	DRB1*10:01	Anaphylaxis	Caucasian		(78)	
	B*55:01		European		(79)	
Statins	DRB1*11:01	NAM	Pacific Islander		(80)	
Strontium Renalate	A*33:03	SJS/TEN	Han Chinese		(81)	
Sulfasalazine	B*13:01	DRESS	Han Chinese		(82)	
Ticlopidine	A*33:03	DILI	Japanese		(83)	
Ximelagatran	DRB1*07:01	DILI	European		(84)	

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