

Supplementary Table S1. Haplotype association analysis of *ABCC2*, *ABCB1* and *ALDH1A1* polymorphisms with toxicity/response.

		Anthracycline pathway					Ifosfamide pathway							
		<i>ABCB1</i> (rs1128503 rs2032582 rs1045642)					<i>ABCC2</i> (rs3740066 rs2273697)				<i>ALDH1A1</i> (rs3764435 rs168351)			
		TTT	TGT	CGT	TGC	CGC	TA	CA	TG	CG	CG	AG	CA	AA
Grade 3-4 anaemia	Frequency affected	0.244	0.075	0.074	0.003	0.604	0.002	0.075	0.575	0.348	0.003	0.091	0.435	0.472
	Frequency unaffected	0.303	0.013	0.066	0.013	0.605	0.016	0.260	0.339	0.384	0.013	0.105	0.459	0.422
	<i>p</i> -value (univariate)	0.555	0.098	0.888	0.643	0.999	0.580	0.046	0.034	0.742	0.619	0.818	0.804	0.621
	<i>p</i> -value (multivariate)	0.258	0.02	0.917	0.601	0.549	0.79	0.165	0.104	0.683	0.481	0.846	0.618	0.399
Grade 3-4 thrombo-cytopenia	Frequency affected	0.379	0.01	0.111	0	0.5	0	0.063	0.5	0.438	0.006	0.057	0.432	0.506
	Frequency unaffected	0.269	0.033	0.060	0.013	0.626	0.015	0.241	0.381	0.364	0.012	0.107	0.457	0.424
	<i>p</i> -value (univariate)	0.344	0.584	0.432	0.633	0.320	0.627	0.109	0.371	0.574	0.834	0.527	0.850	0.536
	<i>p</i> -value (multivariate)	0.989	0.786	0.361	0.995	0.914	0.996	0.237	0.219	0.938	0.708	0.508	0.609	0.318
Grade 3-4 neutropenia	Frequency affected	0.288	0.038	0.092	0.001	0.580	0.021	0.164	0.479	0.336	0.021	0.108	0.447	0.424
	Frequency unaffected	0.287	0.020	0.043	0.020	0.630	0.002	0.269	0.310	0.419	0.004	0.096	0.459	0.441
	<i>p</i> -value (univariate)	0.989	0.587	0.314	0.345	0.601	0.380	0.197	0.083	0.390	0.331	0.816	0.888	0.838
	<i>p</i> -value (multivariate)	0.981	0.411	0.247	0.511	0.422	0.695	0.398	0.104	0.227	0.501	0.787	0.869	0.877
Febrile neutropenia	Frequency affected	0.289	0.028	0.099	0.0009	0.584	0.026	0.074	0.524	0.376	0.025	0.100	0.496	0.379
	Frequency unaffected	0.287	0.031	0.050	0.016	0.617	0.003	0.303	0.319	0.374	0.004	0.102	0.432	0.461
	<i>p</i> -value (univariate)	0.982	0.931	0.331	0.447	0.738	0.305	0.006	0.040	0.984	0.262	0.968	0.469	0.348
	<i>p</i> -value (multivariate)	0.832	0.781	0.240	0.621	0.652	0.474	0.035	0.040	0.697	0.487	0.93	0.574	0.429
Vomiting	Frequency affected	0	0	0	0	1	0.012	0.208	0.398	0.382	0	0	0	1
	Frequency unaffected	0.293	0.030	0.070	0.011	0.597	0.030	0.829	0.048	1.062	0.011	0.103	0.460	0.425
	<i>p</i> -value (univariate)	0.365	0.804	0.699	0.883	0.248	0.862	0.363	0.827	0.303	0.881	0.632	0.194	0.104
	<i>p</i> -value (multivariate)	0.996	0.999	0.988	0.995	0.995	0.976	0.491	0.833	0.57	1	0.997	0.995	0.993
Grade 3-4 transaminititis	Frequency affected	0.167	0	0	0	0.833	0.009	0.158	0.658	0.175	0	0.333	0	0.667
	Frequency unaffected	0.290	0.032	0.074	0.011	0.593	0.013	0.221	0.381	0.385	0.012	0.085	0.481	0.422
	<i>p</i> -value (univariate)	0.514	0.657	0.489	0.794	0.241	0.928	0.716	0.178	0.303	0.790	0.044	0.021	0.237
	<i>p</i> -value (multivariate)	0.896	0.995	0.987	0.995	0.376	0.924	0.609	0.283	0.445	0.997	0.121	0.994	0.424
Haemorrhagic cystitis	Frequency affected										0	0.25	0.25	0.5
	Frequency unaffected										0.011	0.091	0.467	0.431
	<i>p</i> -value (univariate)										0.829	0.289	0.392	0.783
	<i>p</i> -value (multivariate)										0.997	0.387	0.463	0.804
Pathological response >90%	Frequency affected	0.242	0.068	0.065	0.002	0.623	0.031	0.094	0.406	0.469	0.024	0.136	0.416	0.424
	Frequency unaffected	0.339	0	0.065	0.015	0.582	0.003	0.247	0.397	0.353	0.004	0.084	0.472	0.441
	<i>P</i> -value (univariate)	0.331	0.033	0.996	0.567	0.698	0.264	0.077	0.928	0.281	0.288	0.342	0.538	0.847
	<i>P</i> -value (multivariate)	0.269	0.995	0.810	0.528	0.503	0.511	0.2	0.783	0.471	0.544	0.217	0.415	0.936

The statistically significant *p*-values are marked in bold.