IONIC DNA System

Personalized Pharmacogenomic Analysis Report

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■ Variant-Based Drug Risk Summary

rsiI	Gene	Drug(s) Pheno Categ	ot _! Signif	ic Chron	nc Positi	oı Ref	Alt	Genot	y∣ Notes	Summary
rs18	.0113 3 /ITHF	R atorva	stat lvi etab	olis ye/ ₽K	1	11856	378G	А	0/1	NaN	: Metab Clinica signific yes.

rs1801 133	//THFR I-meth	ylfo Effic acy not state	1 ed	11856378G	A	0/1	Please : note Efficace that Clinical alleles significe have not been stated complemented to the positive strand. Case study of a patient with the AG genotype whose response to pharmacotherap was improved by the addition of
							the addition

rs1801	13 3 /THFF		tabine, in, xel, icin, atin,	y yes	1	11856	378G	A	0/1	Patients :: with Efficathe Clinic AA signiff genotype had decreased Effications progression Progressio
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rs1801	13 3 //THE	R disulfir	amEfficad	y ves	1	11856	378G	А	0/1	The	Synop
				, ,,,,					- 7 .	drop	Varian
										in	rs1801
										percer	
										of	gene
											e-plo/sī/ti-v/e
										urines	
										for	respor
										patien	
										with	disulfir
										the	Pheno
										СТ	Efficac
										and	Clinica
										TT	signific
											pesyes.
										over	
										the	
										10	
										weeks	
										of	
										disulfir	am
										treatm	ent
										was	
										signific	antly
										greate	
										compa	
										to	
										those	
										with	
										the	
										CC	
										genoty	pe.
										Please	;
										note	
										alleles	
										have	
										been	
										comple	emented
										to	
										the	
										positiv	
										chrom	osomal
										strand	

rs180 ⁻	113 3 /1THF	R metho	trex at fecac	y no	1	11856	37 8 G	A	0/1	Alleles were given as C and T. Respo measu as relapse surviva and overall surviva	Efficac Clinica signific no. nse ired e-free
rs180 ⁻	113 3 /ITHF	R capeci	tab Me tab	olis yne∕ ₽K	1	11856	378G	А	0/1	by increatin eliminatination balf-life	

this haplotype had a significantly lower disstolic and systolic blood pressure (DBP and SBP) response to benazepill between baseline and 15 days of treatment, as compared to those with any other haplotype, Please note alleles have been complemented to the plus thromosemal strand.	rs1801133MTHFR benazepriEfficacy yes 1 118563783	A 0/1	had a significantly lower diastolic and systolic blood pressure (DBP and SBP) response to benazeptil between baseline and 15 days of treatment, as compared to those with any other haplotype. Please note alleles have
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rs1801 13 3 MTHFF	R metho trexattica	y yes 1	11856378G	A	0/1	Alleles Synop given Varian as rs1801 C in and gene T. MTHF Efficacy of respor was to measured metho as Pheno change Efficac of Clinica DAS28 signific from yes. start of treatment to 6months after initiation of treatment. Effect seen in patients receiving monotherapy for methotrexate. In combination with MTHFR A1298C, patients with 677CC-1298CC or 677TT-1298AA had better response to methotrexate by DAS28 change (p=0.013).
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rs1801133MTHFR antipsychemitisacy y chlorp romazine, clozapine, haloperidol, olanzapine, quetia pine, risperidone	es 1	11856378G	A	0/1	response is measured by Efficate SynANSS Clinic (Positive and significantly higher mean score was also found in those having MTHFR CT genotype compared with CC and TT; patients. " "Higher negative Syndrome Scale socres were significantly associated with women and having the CT genotype for MTHFR c.677C>T (\$\beta = 4.25; p = 0.008) compared with CC patients. "	ica ific
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rs180113 3 //THFF	R methotrex vite tab	olis no /PK 1	11856378G	A	0/1	NaN	:: Metab Clinica signific no.
rs1801 133MTHFF	R metho trextaltetab	olismo/PK 1	11856378G	A	0/1	associal between this variant and method concert at 72 or 96 hours. Variant describers as C677T in the paper and mapper to rs1801 by Pharm Please note that alleles have been	d 133 GKB.

rs1801	13 3 MTHF	R metho	trex ati cad	y no	1	11856	378G	A	0/1	associ betwee variant and relapse surviva overal surviva or event- surviva Please note that alleles have	e-free al, al free al. emented

rs18011	13 3 MTHF	R metho	tre xidie tab	olis ye ∕₽K	1	11856	378G	A	0/1	Patients :: carrying Metab at Clinica least signific one yes. A allele had significantly higher AUC of methotrexate than patients with the GG genotype. Please note that alleles have been complemented to the positive strand.
rs18011	13 3 /ITHF	R metho	tre xidie tab	olisyne/\$PK	1	11856	378G	A	0/1	Please :: note Metab that Clinica alleles signific have yes. been complemented to the positive strand.

©LCN6, metho	otrex late tab	olis m øPK	1	11856	378G	A	0/1	Please note	:
								that	
								alleles have	
								been	
									emented
								to	
								the	
								positiv	е
								strand	

rs1801	13 3 MTHF	R metho	trex atte cac	y yes	1	11856	378G	Α	0/1	with the AA	s Synop Varian rs1801 in pe gene MTHF
										better overal survival than	affects respor
										the AG or GG genotyr	Clinica signific yes. pes.
										Variant referred to in the paper	
										as C677T. Please note that alleles	
										have been	mented
										strand.	

survival between genotype groups. Please note that alleles have been	rs180 ⁻	13 3 MTHFR metho	otrex affi cacy no	1	11856378G	A	0/1	between genotype groups. Please note that alleles have been complemented to the positive
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rs1801 13£LCN MTHE	exiditetab olismo/PK	1	11856378G	A	0/1	Please : note that alleles have been complemented to the positive strand. This variant is referred to as 677C> T is the paper and was mapped to rs1801 133 by Pharm GKB. The AA genotype was not found in

	©LCN6, metho	trex late tabolis no	PK 1	11856378G	A	0/1	Please : note that alleles have been complemented to the positive strand.
rs180113	MTHFR metho	trex late tabolis ye	PK 1	11856378G	A	0/1	SNP :: is Metab referred Clinica to signific in yes. the paper as 677 C>T and was mapped to rs1801133 by Pharm GKB. Please note that alleles have been complemented to the positive strand.

rs1801 13 3 //THF	R methotrexialtestab	olisyne/SPK 1	11856378G	A	to the posi strai Pati with the AG gene did not have sign diffe metl plas leve com to thos	Metabe Clinicales significate yes. In plemented tive and. Ents Otype elificantly rent anotrexate and list pared pared e
					com to thos with the GG	pared e

rs18011	13 3 MTHFR	₹ metho	trex lalic tab	olis n v/PK	1	11856	378G	A	0/1		en d trexate on I trexate
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rs1801 13 3 /ITHF	R methotrexattaca	cy no	1	11856	378G	A	0/1	alleles : complementation chromosomal strand. Response measured by ESR, erythrocyte sedimentation rate; TJC, tender joints counts; SJC, swollen joints counts; DAS28, Disease Activity Score in 28 joints. "DAS28 was decreased after the post-treatment in 677TT and 1298AC, but was not statistically
								statistically significant."

rs1801	13 3 //THF	R capeci fluorou	tab De şag ıracil	e yes	1	11856	378G	А	0/1	"differences were Dosag not Clinica present signific in yes. male patients."
rs1801	13 3 MTHF	R metho	trex Etx icit Metab	y, yes olism/PK	1	11856	378G	A	0/1	Half :: life Toxicit and Metab AUC Clinica was signific significantlyes. increased and elimination rate, volume of distribution and total body clearance was significantly decreased.
rs1801	13 3 MTHF	R capeci fluorou leucov oxalipl	orin,	y yes	1	11856	378G	A	0/1	FOLFOX: (54.4%) Efficace and Clinical CAPOX significe (45.6%) yes. regimens. Measured as cumulative survival over 100 months since diagnosis.

rs180113	3 3 MTHFR risperio	don e fficacy no	1	118563	378G	А	0/1	Please note that alleles have been complen to the positive strand.	: Efficac Clinica signific no. nented
rs180113	33MTHFR metho	trex atti cacy no	1	11856	378G	А	0/1	Please note: alleles have been complen to the plus chromos strand.	
rs180113	3 3 MTHFR metho	trex aff icacy no	1	118563	378G	A	0/1	Please note: alleles have been complem to the plus chromos strand.	
rs180113	3 3 /THFR merca metho		1	118563	378G	А	0/1	NaN	:: Dosag Clinica signific no.

rs1801	13 3 //THF	R metho	trex E obexicit	y no	1	11856	378G	A	0/1	Discont	inuation
				•						due	rs1801
										to	in
										adverse	e gene
										effects.	MTHF
										Please	affects
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										the	
										plus	
										chromo	somal
										strand.	

rs1801 13 1 MTHF	R antine opla sffic a	y no	1 1	1856378G	A	0/1	No : significantEfficace differenceClinicatin significate response no. rate or progression-free survival time was seen between the genotypes. Patients were either receiving FOLFOX/XELO or FOLFIRI regimens (respectively: fluorouracil, leucovorin, oxaliplatin; capecitabine, oxaliplatin; fluorouracil, leucovorin, irinotecan). Please note alleles have been complemented to the plus chromosomal
							chromosomal strand.

rs1801	13 3 //THF	R metho	trex att icad	y no	1	11856	378G	A	0/1	NaN	: Efficac Clinica signific no.
rs1801	13 3 /1THF	R metho	trex att icad	y yes	1	11856	37 8 G	A	0/1	677TT associ with over 4-fold increal risk for nonres " Alleles comple to plus	rs1801 atein gene MTHF affects sedrespor to metho spolisteeno Efficac Clinica emesingeitic yes.
rs1801	13 3 //THF	R metho	trex lalie tab	olis yne/\$ °K	1	11856	378G	A	0/1	AA vs GG and AG vs GG were statisti	

rs1801	13 3 MTHF	R Platinu compo	ım Efficad	y no	1	11856	378G	А	0/1	Patients: were Efficace treated Clinical with significe cisplatin no. or carboplatin in combination with a third-generation drug
										(gemcitabine, paclitaxel, pemetrexed or vinorelbine). No significant association with overall response rate (ORR).
										overall survival (OS) or progression-free survival (PFS) was found for this SNP. Please
										note that alleles have been complemented to the plus chromosomal strand.

rs1801	13 3 MTHF	acid, hydrox metho	Efficad ychloroqu trexate, alazine	Í	1	11856	37&G	А	0/1	NaN	: Efficac Clinica signific no.
rs180 ⁻	13 3 MTHF	R metho	trex atti cad	y no	1	11856	378G	А	0/1	NaN	: Efficac Clinica signific no.
rs180 ⁻	13 3 MTHF	R metho	trex atti cad	y no	1	11856	378G	A	0/1	In this study those with a "favou MTHF genoty (ie. 677C0 rs1801 or 1298A were treated with a higher dose.	R rpe :/ 133 A/rs1801 ⁻

rs1801133MTHFR folic acid Stated Stat
acid stated note rs18 that in alleles generated have MTH been affect complementations.
that in alleles generated been affect complements.
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responded
to
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rs180113 3 MT	HFR benaz	epri E fficacy	no 1	11856	378G	А	0/1	No	Synop
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								of	affects
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								and	Clinica
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								benaz	epril
								treatme	ent
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rs180113 3 //THF	R benazepri E ffica	cy yes	1	11856	378G	Α	0/1	Patients Synop
								with Varian
								the rs1801
								AA in
								genotype gene
								had MTHF
								a affects
								greater respor
								change to
								in benaz
								diastolic Pheno
								blood Efficac
								pressure Clinica
								between signific
								baseline yes.
								and
								after
								15
								days
								of
								treatment,
								compared
								to
								those
								with
								the AG
								and
								GG
								genotypes.
								Please
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								been
								complemented
								to
								the
								plus
								chromosomal
								strand.

rs1801	13 3 MTHF	R metho	trex at fecad	y no	1	11856	37 8 G	A	0/1	copies of rs1801 G, there was also an increadin the associ betwee rs1801 and	no. 133 ation an 131 trexate
rs1801	13 © LCN		trex att ecad	y yes	1	11856	378G	A	0/1	was classif by DAS28 >3.2 at two consec	CLCN MTHF affects cutivespor tiorto ummetho Pheno Efficac Clinica signific yes.

rs1801	13 3 /THF	R metho	trex at icad	y yes	1	11856	378G	A	0/1	say this variant is associ with non-re in recess model (minor allele/r allele vs minor/ + major major and descril variant as C677T Alleles comple to plus	gene ateMTHF affects sporespor to ivemetho Pheno Efficac ninOtlinica signific yes. major De : : : : : : : : : : : : : : : : : :
rs1801	13 3 MTHF	R fluorou leucov oxalipl	orin,	y yes	1	11856	378G	А	0/1	NaN	: Efficac Clinica signific yes.
rs1801	13 3 MTHF	R metho	trex atti cad	y no	1	11856	378G	А	0/1	NaN	: Efficad Clinica signifid no.

rs1801	13 3 //THF	R metho	trex att icad	y no	1	11856	37&G	А	0/1	NaN	: Efficac Clinica signific no.
rs1801	13 3 /1THF	R metho		y, no olism/PK	1	11856	378G	А	0/1	NaN	:: Toxicit Metab Clinica signific no.
rs1801	13 3 MTHF	R metho	trex vite tab	olis yne/ ₽K	1	11856	378G	А	0/1	NaN	:: Metab Clinica signific yes.

not correlate with disease activity or red blood cell methotrexate metabolites.	rs180113 3 MTI	HFR methotrexatt	cacy no 1	11856378G	A	0/1	Genotype: AA Efficac is Clinica associatedignific with no. increased red blood cell folate when treated with methotrexate as compared to genotype GG but this did
methotrexate as compared to genotype GG but this did not correlate with disease activity or red blood cell methotrexate							
as compared to genotype GG but this did not correlate with disease activity or red blood cell methotrexate							
to genotype GG but this did not correlate with disease activity or red blood cell methotrexate							
genotype GG but this did not correlate with disease activity or red blood cell methotrexate							
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this did not correlate with disease activity or red blood cell methotrexate							
did not correlate with disease activity or red blood cell methotrexate							
not correlate with disease activity or red blood cell methotrexate							
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Trotas sinco.							
							motabbilitos.

rs180113 3 //THF	R methotr	rex Eate xicity	y yes	1	11856	378G	Α	0/1	Meta-analysis with 8 studies.	::::::
									Cohorts of pediatrics	Varian rs1801
									(6 studies) and	in gene
									adults (2 studies)	MTHF affects
									were also	respor
									considered separately. In the	to metho
									pediatric and overall	Clinica signific
									cohort, those with the	yes.
									AA genotype had a	
									greater risk of experiencing	
									relapse as compared	
									to those with the	
									AG or GG genotype;	
									no significant result	
									was seen when	
									considering the adult	
									cohort (the authors	
									note that more	
									studies are needed	
									before reliable conclusions	
									can be drawn regarding	
									the influence of	
									rs1801133 on relapse	
									in adults with	
									ALL). Please note	
									alleles have been	
									complemented to the plus	d
									chromosomal strand.	

rs1801 133MTHFR Vitamin Efficacy yes B-complex, Incl. Combinations	11856 378G A 0/1 Please note that Varian inlet in the positive strand. Patients who carried either the A B-com allele of Incl. rs1801131 combin or the G allele of state of recruited into the study (genotypes are not given) and given a a capsule containing reduced B vitamins and macronutients or a placebo. Patients taking the B vitamin capsule showed a significant decrease in MADRS score over 8 weeks of treatment compared to those placebo.
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rs1801	13 3 MTHF	R fluorou	ırad⊞fficad	y yes	1	11856	378G	A	0/1	receiving fluorous chemos Responsion (CR) and partial responsion (PR). Non-resinclude progrediseas (PD) and stable diseas (SD). Please note that alleles have been	ise Efficad Clinica sp siga ifid ed yes. ssive e
										that alleles have been comple to the plus	emented

rs180 ⁻	13 3 /THF	R metho	tre xialie tab	olisyne/sPK	1	11856	378G	A	0/1	Alleles :: complemeMetalb "As Clinical depicted signification yes. Fig. 1, the MTHFR 677CT/TT genotype exhibited a higher likelihood of delayed clearance compared with the wild-type (OR = 3.056/3.456, P = 0.019/0.009)."
rs180 ⁻	13&LCN MTHF		vir Metab	olis m øPK	1	11856	378G	A	0/1	Significance threshold Metab was Clinica set signific at no. 4.5E-3.
rs180 ⁻	13 3 MTHF	R vitamiı b12 and folic acid	n Efficad	y yes	1	11856	378G	A	0/1	Full : text Efficac was Clinica unava labtagnific annotationyes. made using abstract.

rs1801	13 8 /THF	R metho	trex at icad	y yes	1	11856	378G	A	0/1	"In Synop Varian multivariable fs1801 analysis, which included smoking, MTHF the affects DHFR respor rs408626 and MTHFR rs1801 association with MTX failure (OR 3.12, P = .017 and OR 2.86, P = .015, respect vely in a dominant model). The DHFR rs408626-G and MTHFR rs1801 33-C alleles were associated with a higher risk of MTX failure. "Alleles comple mented.
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rs223 [,]	14 2 ABCG	2 rosuva	sta E fficac	y no	3	14131	367G	Т	0/0	ABCG2: 421C>A Efficace did Clinical not significantho. affect the lipid-lowering response of rosuvastatin.
rs223 ²	142ABCG	2 allopu	rinoEfficad	y yes	3	14131	367G	T	0/0	this Synop was Varian significants2231 in in both gene LASSO ABCG and affects New respon Zealand to cohorts allopur and Pheno meta-ana Ffisac Good Clinica respondersignific were yes. defined as SU <6 mg/dl on allopurinol 300 mg/day and poor responders as SU 6 mg/dl despite allopurinol >300 mg/day

rs2231	14 2 BCG	2 rosuva	sta l/re tab	olis nv PK stated	3	14131	367G	Т	0/0	NaN	: Metab Clinica signific not stated
rs2231	14 2 BCG	2 rosuva	sta l/re tab	olis yne/ ₽K	3	14131	367G	Т	0/0	NaN	:: Metab Clinica signific yes.

rs223′	142ABCG	2 rosuva	asta li/le tab	olisyne/₽K	3	14131	367G	T	0/0	"The mean Metab Css/D Clinicated signification were significantly higher in the subjects carrying the ABCG2 421A than in non-carriers of this; allele. The effects of this allele remained significant after being adjusted by the baseline characteristics and false discovery rate;
										the baseline characteristics and false

rs2231	14 2 ABCG	2 rosuva	sta l/r etab	olisyne/¶PK	3	14131	367G	Т	0/0	This :: varian: Metab affected Clinica rosuva stasiignific concentravies. significantly and potentially affect serum levels of pro-inflammator and pro-angiogenic markers.
rs2231	14 2 ABCG	2 apixab	an Metab	olis yne/ ₽K	3	14131	367G	Т	0/0	was :: significanfMetab for Clinica 3 signific measuresyes. of PK : AUCss, Cmax,ss, and Cmin,ss.
rs2231	14 2 BCG	2 pitava	stat M etab	olisn v /PK	3	14131	367G	Т	0/0	Please : note that alleles have been complemented to the positive strand.

rs2231142ABCG2	Opioid Efficace anesthetics, Other general anesthetics, volatile anesthetics	y yes	3	14131	367G	Т	0/0	associ with a shorte recove time from genera anesth	gene cantyBCG atedffects respor to r Opioid ry anesth Other genera al anesth esixolatile redanesth Pheno Efficac Clinica signific
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rs2231	142ABCG	2 gefitini	b Metab	olis mo /PK	3	14131	367G	Т	0/0	No	:
										signific	
										differe	nce
										in	
										area	
										under	
										the	
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											ntration-tir
										curve	
										(AUC)	
										or	
										maxim	
										plasma	
										concer	
										(Cmax)
										or	
										trough	
											ntrations
										(C0) was	
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										genoty	pes.
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										alleles	
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										plus	
										chrom	osomal
										strand.	

rs2231 142ABC	G2 sulfasalaz	Minetab olisyne/₽K	3	14131	367G	T	0/0	A single oral dose was given and pharmacon parameters were measured at different times points. Parameters AUC0-48, Cmax and CLtotal/F were all significant different in individuals with the GT genotype compared to GG, and in individuals with the TT genotype compared to GG and compared to GG. Author State of Sulfasalazi at all time points were significant in TT subjects compared to GG (0-48 hours, except 0.5 hours).	s s y

rs223114ABCG	2 gefitinib Metal	polismo/PK 3	14131367G	T	0/0	No : significant difference in median area under the concentration-tir curve from 0 to 24 hours (AUC0-24; p=0.323) or trough plasma concentration (C0; p=0.429) was seen between the two genotype groups. Please note that alleles have been complemented to the plus
						the

rs2231	14 2 ABCG2	N-des met	tMetabrobicifee/P	К 3	14131	367G	Т	0/0	to plus chromo strand. RS number has typo in paper (effect is reporte for ABCG2 c.421C: and lists in method as	d : >A
									rs22311	141.

rs223114 2 ABCG2	lamotrigin l eletabol	iism v /PK 3	1413136	7G T	0/0	Please: note that alleles have been complemented to the positive strand.
rs223114 2 ABCG2	lamotrigin Đ osage	no 3	1413136	7G T	0/0	Please : note Dosag that Clinica alleles signific have no. been complemented to the positive strand.

rs2231	14 2 BCG	2 rosuva	staEfficac	y yes	3	14131	367G	Т	0/0	c.4210	Efficaci 2 Clinica 2 Asignific 2 Pe yes. ed 2 antly es terol
rs2231	14 2 ABCG	2 metho	trex lalte: tab	olismo/PK	3	14131	367G	Т	0/0	NaN	:

RA with DAS 28 of 3.2 and above.

rs223114 2 AB	CG2 methotrexialisetal	oolismo/PK 3	14131367G	Т	0/0	No : significant difference in allele frequency between patients with delayed methotrexate excretion and those with normal methotrexate excretion.
						excretion.

rs223 ⁻	14 2 BCG	2 metho	trex late tab	olis yne∕ PK	3	14131	367G	T	0/0	Please note that alleles have been complem to the positive strand. Patients with the TT genotype did not have significant different methotre plasma levels compare to those with the GG genotype genotype genotype for the those with the GG genotype	to metho Pheno Metab Clinica signific yes.
rs223 ⁻	14 2 BCG	2 pazop	anitMetab	olis m øPK	3	14131	367G	Т	0/0	Alleles complem to plus chromos strand.	Clinica signific

rs22311	14 2 BCG2	2 rivarox	ab a Metab	olis no /PK	3	14131	367G	Т	0/0	Alleles :: complemevietalb "The Clinica majority signific of no. patients had taken rivarox aban 15 mg" Patients had "NVAF undergoing AF catheter ablaticn".
rs22311	142ABCG2	2 pitavas	stat M etab	olis n v/PK	3	14131	367G	Т	0/0	ABCG2: 421C4A variant did not appear to be associated with the altered pharmacokinetic of pitavastatin.

rs2231	142ABCG	2 imatini	b Metab	olis ye ∕₽K	3	14131	367G	Т	0/0	"The : CO/D rs2231 of in IM gene appearedABCG higher affects in respor patients to with imatini the Pheno rs2231142Metab mutant Clinica T-allele signific (3.98 yes. ± 1.36 ng/ml·mg-1) than that in wild-type GG genotype patients (3.40 ± 1.21 ng/ml·mg-1)."
rs2231	142ABCG	2 rosuva	sta life tab	olisyne/₽K	3	14131	367G	Т	0/0	Alleles :: complemented b to Clinica plus signific chromosoyes l strand. Meta-analysis of 8 studies looking at AUC and Cmax of rosuvastatin.

rs223114	42ABCG2 dolute	gra ₩l etabolis ye/ ₽	3	141313	67G	Т	0/0	Alleles complemented to plus	: a recom
								chromosoma strand. "ABCG2 c.421C>A (rs2231142)	recom
								was independently associated with a 28% increase	
								in dolutegravir Cmax; (b =	
								0.053; P = 0.047) in the homozygous variant. GM	
								Cmax (95% CI); was 3893 (3774–4240).	
								4346 (3629–5531) and 4994 (single	
								value) ng/mL in the CC, CA and AA	
								genotype groups, respectively." "Pooled samples	
								from three Phase I clinical trials	. .
								(NCT0221921 NCT02509195 and NCT03094507 and one Phase	5
								III clinical trial; (NCT023519) carried	8)
								out at the St Stephen's AIDS Trust	
								clinical trial unit,; London" From	
								Table one, only one individual was	
								homozygous for minor allele.	

rs2231	14 2 BCG	2 felodip	ineMetab	olisyne/\$PK	3	14131	367G	Т	0/0	NaN	: rs2231 in gene ABCG affects respor to felodip Pheno Metab Clinica signific yes.
rs2231	14 2 BCG	2 apixab	an Metab	olisyne/\$PK	3	14131	367G	Т	0/0	has higher	ntra yies s/do

rs2231	142ABCG	2 allopu	rinoEfficad	y yes	3	14131	36 7 G	Т	0/0	design "respo to allopur as a reduct of serum uric acid levels to below 6 mg/dL Mean age was 68 years, 75% were male.	gene rino/ABCG affects respor rion to allopul Pheno Efficac Clinica signific yes.
											yes.
										were	
										The	
										elevat	ed
										mean baselir	ne
										SUA	
										before	
										treatm	
										was	
										8.9	
										mg/dL	
										No other	
										other SNPs	
										reache	ed
										genor	
										wide	
										signific	ance.

rs2231142ABCG2 dolutegra Wife tabolis yne/ SPK 3 14131367G T 0/0 mean peak plasma concer
--

rs2231 ⁻	14 2 ABCG2	2 axitinit	o Metab	olismad&PK	3	14131	367G	Т	0/0	The authors	::
										develop a prediction	Metab Clinica
										model and	signific
										calculated area	yes.
										under the concentratio	ın
										curve (AUC)	
										using 6 SNPs	
										(rs1786832 rs3832043,	3,
										rs2231142, rs2032582, rs1045642,	
										rs35305980 was)
										compared with actual	
										AUC in 16	
										patients prospectivel which	у
										significantly correlated	
										with the	
										objective response rate (P	
										= 0.0002), hand-foot	
										syndrome, P =	
										0.0055 and hypothyroidi	em
										P = 0.0381,	o,
										and correlated with	
										actual AUC	
										(P < 0.0001) - the	
										validation study,	
										calculated AUC prior to	
										axitinib treatment	
										precisely predicted actual	
										AUC after	
										axitinib treatment (P =	
										(P = 0.0066).	

rs2231142ABCG	62 imatinib Dosa	ge no 3	14131367G	Т	0/0	No : significant association between genotype and chance of requiring an imatinib dose reduction. Please note that alleles have been complemented to the positive
						the

rs2231 142ABCG2 allopurinoEfficacy	y yes 3	14131 367G	T	0/0	Good response was defined as serum urate of < 6 mg/dl on a dose of allopurinol on less than 300 mg/day and poor response was defined as serum urate of greater than or equal to 6 mg/dl despite allopurinol of greater than or equal to 6 mg/dl despite allopurinol of greater than or equal to 6 mg/dl despite allopurinol of greater than a 300 mg/d. The frequency of the GT and TT genotypes was higher in the poor responder group (N=68) than in the good responder group (N=120). This association remained significant even after adjusting for gender, BMI, ethicity, estimated glomerular filtration rate, diuretic use, and serum urate concentration at baseline.	Synop Varian rs2231 in gene ABCG affects respor to allopui Pheno Efficac Clinica signific yes.
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chrombsomal strand.	rs2231142ABC	G2 tacrolimusDosa	ge no 3	14131367G	T	0/0	No : significanDosag differenceClinica in signific clearanceno. or blood concentration of tacrolimus was seen between the genotypes of the rs2231142 SNP, at any point between 0 and 60 days after transp lant. Please note alleles have been complemented to the plus chromosomal strand
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rs2231	142ABCG	2 fluorou irinote oxalipl	y no	3	14131	367G	T	0/0	Patients : were taking either IFL sign (irinotecan heliuorouracil	nica nific
									progression in any of the treatment groups OR	

rs2231	14 2 ABCG2	metho	trex Eoe xicit	y no	3	14131	367G	Т	0/0	Discont	inuation
				•						due	rs2231
										to	in
										adverse	e gene
										effects.	ABCG
										Please	affects
										note	respor
										that	to
										alleles	metho
										have	Clinica
										been	signific
										comple	menoted
										to	
										the	
										plus	
										chromo	somal
										strand.	

rs223114 2 ABCG	2 sulfasalaz līff ica	cy yes 3	14131367G	Т	0/0	After : adjusting Efficact for Clinicat age, signific baseline yes. DAS28, smoking status and shared epitope positivity, those who carried one
						to achieve remission after 12 months of treatment. Remission defined as an SDAI of <3.3. Please note that alleles have been complemented to the positive chromosomal strand.

rs2231142ABCG2	antine opl asfiic ac agents	y yes	3	14131	367G	T	0/0	Patients with the GG genotype receiving a FOLFOX/X regimen (respective fluorourace leucovorin oxaliplatin capecitabi oxaliplatin had a decreased response rate, as compared to those with the GT or TT genotype. No significant difference in response rate was seen in patients receiving a FOLFIRI regimen (fluorourace leucovorin irinotecan) No significant difference in patients receiving a FOLFIRI regimen (fluorourace leucovorin irinotecan) No significant differences in progression survival were seen for either regimen. Please note alleles have been compleme to the plus compleme to the plus compleme to the plus compleme to the spen compleme to the plus compl	the role of the gene ABCG in the respor to antine agents
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rs223114	4 2 BCG2 granis	setro E fficacy osetron	no 3	14131	367G	Т	0/0	There was no Efficace significant association between this no. variant and proportior of patients showing a "complete response" to antiemetic treatment
								during the first 120 hours after cisplatin-based chemotherapy initiation. Complete response defined as no vomiting episodes or no use of rescue
								medication. Patients were either receiving granisetron (n=79) or palonosetron (n=77), both in combination with dexamethasone and aprepitant. Please
								note that alleles have been complemented to the plus chromosomal strand.

rs223114 2 ABCG2	lamotrigin E fficac	y no	3	14131	367 <u>G</u>	Т	0/0	Alleles	Synop
		,						given as A and C.	Varian
								Efficacy was	rs2231
								determined by	in
								monitoring the	gene ABCG
								frequency	affects
								of patients'	respor
								epileptic seizures	to
								within one	lamotr
								year. Each	Pheno
								patient was	Efficac Clinica
								evaluated at 4	signific
								weeks after	no.
								treatment initiation	
								and then at	
								3-month intervals	
								thereafter. The	
								difference in	
								seizure frequency	
								was based	
								on the difference	
								between the	
								3-month retrospective	
								baseline frequency	
								and the seizure	
								frequency at	
								12-month visit,	
								which was	
								reported for the	
								last 3 months	
								prior to the last	
								visit. Good	
								efficacy was	
								defined as	
								seizure-free or a	
								50% or greater	
								reduction in	
								seizure frequency	
								within	
								1-year follow-up	
								period.	

rs223114 2	ABCG2 lamotr	igin l eletabolis ne∕ ₽K	3	14131	367G	т	0/0	Lamot	riginæ
								conce	ntratieocosm
								were	
								meası	red
								as	
								steady	
								state	
								in	
								plasma	a
								in	
								the	
								early	
								mornir	
								before	
								breakf	ast
								after	
								at	
								least	
								one	
								month	
								of	
								contin	
								treatm	ent
								with	
								lamotr	
									herapy.
								Alleles	
								given	
								as	
								Α .	
								and	
								C.	

rs223114 2 ABCG2	sunitinib Metab	olis yne/ ₽K	3	1413136	67G	Т	0/0	The dose-norm area under the plasma concentrat curve from 0 to 24 hours (AUC) for the composite of sunitinib + SU12662 (its active metabolite was highest for those with	rs2231 in gene gene ion-tiABCG affects respor to sunitin Pheno Metab Clinica signific yes.
								was highest for those	oG).

rs2231	142ABCG	2 lamotr	igin ⊌ letab	olismad&PK	3	14131	367G	Т	0/0	Alleles : a
										given recom as
										A
										and
										C.
										The
										concentration was
										measured
										as
										lamotri <mark>gine</mark>
										trough
										concentration /
										dose
										normalized
										by
										body
										weight Included
										patients
										had
										been
										on
										lamotrigine monotherapy
										for
										at
										least
										a
										month with
										complete
										medical
										records,
										had
										normal renal
										and
										hepatic
										functions,
										and
										had therapeutic
										drug
										monito <mark>ring</mark>
										with
										good
										compliance.

rs2231	142ABCG	2 lamotr	igin ⊌ letab	olismøPK	3	14131	367G	Т	0/0	NaN	:
rs2231	14 2 ABCG	2 defera	sir d Metab	olism v /PK	3	14131	367G	Т	0/0	was not associ with area under the concel curve (AUC) above the effective cutoff of 360	to ntra tief era Pheno Metab Clinica signific /eness
rs2231	14 2 BCG	2 acetar	nin dyletat o	olismo/PK	3	14131	367G	Т	0/0	and only 7	: Metab Clinica signific yg ote s zygotes.

rs223′	142ABCG	2 hmg coa reduct inhibite	ase	y yes	3	14131	367G	Т	0/0	as part of a three SNP genetic risk score with rs10455 in LPA and rs20756 in APOE. Associate allele not explicitly stated but methods reference to the associate allele from there [PMID:2	5872 550 ted y
rs223′	14 2 ABCG	2 risperi	don k letab	olis yne∕ ₽K	3	14131	367G	Т	0/0	compler to plus	: mes2231 in gene soA23CG affects respor to risperi

error.	rs2231	14 2 ABCG2	allopui	inoDosag	e yes	3	14131	367G	Т	0/0	and diuretion use explain 53% of the variaborian predic	rpe Dosag Clinica c signific yes. ned
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rs2231	142ABCG	2 tenofo	vir Metab	olisyne/₽K	3	14131	367G	Т	0/0	Patients with Metab the Clinica signific TT yes. genotype had a 1.51-fold increase in tenofovir area under the concentration-time curve (AUC) as compared to those with the GG genotype.
										had a 1.51-fold increase in tenofovir area under the concentration-time curve (AUC) as compared to those with the GG
										race, ritonavir use, and whether eGFR is less than 70 ml/min per 1.73m2

rs223114	42ABCG2	: antiepi	lep ⊞ts cac	y no	3	14131	367G	Т	0/0	Please :
		Ť								note, Efficac
										alleles Clinica
										have signific
										been no.
										complemented
										for
										the
										plus
										strand.
										Epilep <mark>sy</mark>
										patients
										on
										antiep leptic
										drug
										(AED)
										treatment
										were
										divided
										into
										those
										with
										drug-responsive
										or
										drug-resistant
										epilepsy and
										genotypes
										and
										allele
										frequencies
										were
										compared.
										No
										significant
										association
										found
										with
										this
										variant.

rs2231 142ABCG2	sulfasalaz ī/he tab	olis m øPK stated	3	14131	367G	T	0/0	The mean AUC(0,48 h) was 3-fold higher and Cmax was 2.5-fold higher in individuals with the TT genotype as compared to individuals with the GG genotype. The apparent oral clearance (dose/ AUC(0,48 h)) was 3-fold lower in individuals with the TT genotype as compared to individuals with the TT genotype as compared to individuals with the GG genotype as compared to individuals with the GG genotype as compared to individuals with the GG genotype. The authors reported no differences in sulfasalazine PK between the GG genotype, however a single individual was compound heterozygous at rs72552713 (CT) and rs2231142 (GT) in and altered PK as compared to other individuals who were heterozygous only at rs2231142 (GT). Please note: alleles have been complemented to the + chromosomal strand.	: Metab Clinica signific not stated
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rs223114 2 AB	CG2 atorvastat t r	fficacy no	3	14131	367G	Т	0/0	differe in the followi bioma that corres to genoty (domir model triglyce HDL-c LDL-cl and	Clinica er signific ncesso. ng rkers ponded 'pe aant

"-000	4.40 DOO	O inseti-	h Other		2	4.4404	0.70	-	0/0	The	
rs2231	142ABCG	z imatini			3	14131	36/G	Т	0/0	The :	
			wetab	olism/PK						associatio	n
										was	
										with	
										decreased	
										clearance	
										Genotype	
										alone	
										was	
										not	.
										associated	a,
										but	
										genotype	
										enhanced	
										a	
										more	
										major associatio	. n
										with	"
										body weight,	
										album ner	mia
										and	ıııa
										plasma	
										alpha1-ac	id
										glycoprote	
										There	лт.
										were	
										no	
										TT	
										in	
										this	
										small	
										group(41	
										GG,	
										5	
										GT).	

rs2231 142AB0	CG2 atorva statlivietab	polismo/PK 3	14131 367G	Т	0/0	The : AUC Metab of Clinica atorva statistignific in no. patients carrying ABCG2 c.421AA tended to be smaller compared with those in patients with c.421CC or c.421CA after its microclosing and therap eutic dosing. However, it did not reach statistical significance.
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rs2231	14 2 ABCG2	imatinit	o Efficac	y yes	3	14131	367G	T	0/0	of relation not explicitl stated	mented
										chromo strand.	somal

rs223′	14 2 ABCG	2 lamotr	gin l e/letab	olismyne/\$PK	3	14131	36 7 G	Т	0/0	In : a
										patients recom
										with
										the
										AA
										and
										AG
										genotype,
										steady-state
										measured
										and
										dose-adjusted
										lamotrigine
										trough
										concentration
										was
										higher
										in
										those
										administered
										lamotrigine
										as
										compared
										to
										the
										GG
										genotype
										and
										lower in
										those
										administered
										lamotrigine
										only
										as
										compared
										to
										the
										GG
										genotype.
										- 9οποί) ρο.

rs223 ⁻	142ABCG	2 selum	etin iv etab	olis nv /PK	3	14131	367G	Т	0/0	Not associ with norma dose when allele was assess within ethnic groups (Asian White, Black) and when all ethnic groups were pooled togeth	lized sed
rs223 ⁻	14 2 ABCG	2 igurati	mo ∉ fficad	y yes	3	14131	367G	Т	0/0	Alleles comple to plus strand	em esytetdi e of the
rs223 ⁻	14 2 ABCG	2 apixab	an Metab	olis nv PK stated	3	14131	367G	Т	0/0	NaN	: Metab Clinica signific not stated

rs2231	14 2 BCG2	? metho	tre xMet ab	olisyne/\$PK	3	14131	367G	Т	0/0	The : T rs22: allele in is general associate ABC with affect longer responsible to of methodrex Alter Meta Clinic signi yes.
rs2231	14 2 ABCG2	? sulfasa	alaz Dre sag	e no	3	14131	367G	Т	0/0	Exposure: was Dosa measuredClinic as signi Cmax no. and AUC 0-24.
rs2231	14 2 ABCG2	? rosuva	sta lvir etab	olis no /PK	3	14131	367G	Т	0/0	Exposure: was Meta measuredClinic as signi Cmax no. and AUC 0-24.
rs2231	14 2 ABCG2	? sunitin	ib Metab	olis nv /PK	3	14131	367G	Т	0/0	as : measured by C/D Ratio or total Sunitinib Dose-Adjusted Concentration

rs2231	14 2 BCG	2 talinolo	ol Metab	olis m øPK	3	14131	367G	Т	0/0	This was a twin study of monoz and dizygot twins.	
rs2231	14 2 BCG	2 gefitini	b Efficad	y no	3	14131	367G	Т	0/0	NaN	Synop Varian rs2231 in gene ABCG affects respor to gefitini
rs2231	14ABCG	2 rosuva	ista E fficac	y yes	3	14131	367G	Т	0/0	by	cance s .5*1, >G, 46 2; A,

2 = moderate nausea and 3 = severe nausea) according to the subjective assessment of each patient.							moderate nausea and 3 = severe nausea) according to the subjective assessment of each
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rs223114 2 BCG2	2 sunitinib Metab	olis m ø/PK	3	14131	367G	Т	0/0	NaN	:
rs2231142ABCG2	2 sorafe nib Metab	olis yne∕ ₽K	3	14131	367G	Т	0/0	by concer weight ratio.; (allele: comple to plus strand No TT	yes. semented). sygotes

re22311	4 2 ABCG2	n-dese	thy T ovicit	v no	3	14131	367C	т	0/0	in	Synop
13220 1	72(0002		ib, Metab		3	14101	5070	'	0/0	a	Varian
		sunitin		J113111/1 TX						single	
		Surnar								case	in
										study.	
											s ABCG
										state	affects
											for e espor
										we	to
											ાં ated-desલ
										that	sunitin
										the	sunitin
											ıelyPheno
										high	Toxicit
											a Metab
											ntra ©óinis ca
										of	signific
										sunitin	
										and	1.5
										SU126	62
										cause	
										by	
										the	
										ABCG	2
										421	
										AA	
										genoty	ре
										might	
										have	
										resulte	d
										in	
										severe	
										toxiciti	es
										to	
										the	
										patien	. "

rs223114 2 ABCG	2 letermovirMetab	olism ø PK	3	14131	367G	Т	0/0	No : significant association between this variant and letermovir AUC.
rs2231 142ABCG	2 selumetin l bletab	olis no /PK	3	14131	367G	Т	0/0	Not : associated with AUC, AUC0-12 when allele was assessed within ethnic groups (Asian, White, Black) and when all ethnic groups were pooled together. Only P-values for AUC presented here.

rs2231	14ABCG	2 sulfasa	alaz Ott er	no	3	14131	367G	T	0/0	difference in likelihood of cessation of sulphase treatment due to adverse effects was seen between those who carried the Tallele and those who did not. Most common adverse events were	gene d ABCG ABCG affects respor alazione At sulfasa Pheno Other. Clinica signific no. A vomiting ethargy;
										alleles have been	

rs223114 2 ABCG	2 methotrexiditetab	olis no /PK	3	141313	367G	Т	0/0	TT : vs GG and TG vs GG were not statistically significant.
rs2231142ABCG	2 voriconaz Me tab	oolisyne/SPK	3	141313	367G	Т	0/0	"ABCG2: a phenotypeecom was a also recom associated with recom voriconazele concentratemen (p a = recom 0.015) a with recom poor a function; recom (PF) or decreased function (DF) patients having higher voriconazole concentrations compared to normal function (NF) patients."

re2231147ABCG2 d	diazepamMetabplism o PK	3	14131367G	Т	0/0	effect :
13223 14ADCO2 U	iiazepairiivietabbiisii v i T	"	141315076	'	0/0	was
						seen
						for
						both
						Cmax
						and
						t1/2
						with
						t-test
						but
						was
						not
						significant
						after
						Bonferroni
						correction.

rs2231 142AB	SCG2 eltromoopMetab	olismo/PK 3	14131367G	T	/O "The clearance of Metabothe Clinical variant of ABCG2 (rs22311.42, G>T) was significantly higher than that of the wild-type (P = .02) (Figure 2A). However, when clearances were normalized by weight, the clearance between the wild-type and variant shows no statistical difference (Figure 2D). No other remarkable difference was noted in the wild-type and variant of CYP1A2 (rs762551, C > A) (Figure 2B,E) and UGT1A1.6 (rs4148323, G>A) (Figure 2C,F)."
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rs2231	142ABCG	2 imatini	b Efficad	y yes	3	14131	367G	Т	0/0	a rs2 T in allele ge for AE ABCB1 aff (rs1045642; rs20325820 and im- rs11285039); A Eff allele Cli	arian 2231 ene 3CG fects spor latini neno ficac inica gnific 2311
rs223′	14 2 BCG	2 clozap	ineMetab	olisyne∕\$PK	3	14131	367G	Т	0/0	chromosoAE strand. aff res to	ene &CG fects spor

rs2231	14 2 ABCG2	allopui	inoEfficac	y yes	3	14131	367G	Т	0/0	Respons & yno	
										to Varia	
										allopurino r s223 was in	2
										determinegene	
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										treatmentyes.	
										This	
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										is	
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										perfect	
										LD 	
										with	
										rs45499402.	

rs2231 142ABCG	2 rivaroxab a vletab	olisyne/SK 3	3 141313	367G	T	0/0	Alleles complemented. "In our dataset, individuals with the ABCG2 421 A/A genotype had considerably higher average values of Vd/F (508.27±72.79 L; P=0.001) and t1/2 (41.04±23.73 h; P=0.000) compared to those with the other genotypes, 421 C/A and 421 C/C, with no statistically significant difference between means." "Individuals carrying two mutant alleles in the ABCG2 SNP tended to have lower AUC, Cmax, and Cl/F (as shown in Table 4) compared to carriers of the wild-type genotype. However, it is essential to note that these differences did not achieve statistical significance (P-).05)." Treported for the fasting group which had 2 TT individuals, the group group which had 2 TT individuals, the group group which had 2 TT individuals, the group group group which had 2 TT individuals, the group gro	:: Metab Clinica signific yes.
							which had 2 TT individuals,	

rs2231 142ABCG2	gefitinib Efficac	ey no 3	14131 367G	T	stror evide that rs22 does not influe the resp and toxic to gefit treat in patie with EGF NSC "Threstud anal the cura effect involution 239 patie No associated to see the ABC C42 poly and the resp to Gefit chere (HR: 95% 0.80 p=0. 12=0 as depi in Figure 2." Allel	rs2231 ence in gene 31142 ABCG affects respor to onse gefitini ity nib ment ents R-mutated LC." ee es yzed tive et ator, ving ents ciation eved eer G2 IA morphism onse inib notherapy =1.0 670; CI= 42-1.4156; 653; %), ctec re
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rs2231	14 2 ABCG2	: rosuva	sta l/r etab	olis m dPK stated	3	14131	367G	Т	0/0	Na salarita consequence (%) and consequence of the	: Metab Clinica signific not stated

rs223 [,]	14 2 BCG	2 rosuva	sta lvir etab	olis yne/ ₽K	3	14131	367G	Т	0/0	The :: exposure Metab to Clinica increased signific by yes. 44% in young
										subjects (p = 0.0021) with BCRP intermediate function (IF) and by 35%
										and 59% (p > 0.05 for both) in elderly subjects with
										BCRP IF and low function. The ABCG2 421C > A polymorphism
										was identified as a more important determinant than the SLCO1B1 521T > C
										polymorphism in both elderly and young subjects.

rs223114	42ABCG2 in	matinib Effica	cy yes	3	14131	367G	Т	0/0	Alleles Synop complemented. Varian were rs2231 no in TT homozygotes.gene "However, ABCG a statistically significant difference was noted between the two patient groups signific regarding the distribution of different genotypes of the ABCG2 C421A
									homozygotes.gene "However, ABCG
									significant respor difference to was noted imatini
									the two patient Clinica
									regarding the distribution
									different genotypes of
									C421A polymorphism with
									predominance of the CA genotype
									in responder patients (p =
									0.0395) (Fig. 2b).; Assessment
									of molecular response to imatinib
									based on the BCR-ABL1
									transcript level at 12 months.
									Responders (n = 26); Non-responders
									(n = 24). "

Report generated by IONIC DNA System – Al-powered pharmacogenomic analysis tool.

This report is for informational purposes only. Always consult a licensed healthcare provider before making medical decisions.