

Example Client, XYZ123 1234 Warde Road Ann Arbor MI 48108

EXAMPLE, REPORT W WX0000003827 M 07/08/1978 45 Y

	Referral Te	sting				
	Collected	d: 09/06/2023	3 14:28	Received:	09/06/2023	14:28
Test Name	<u>Result</u>	<u>Flag</u>	Ref-Ranges	<u>s L</u>	<u>Jnits</u>	<u>Site</u>
UGT1A1 Genotyping						
UGT1A1 Genotyping Allele 1	(TA)6 or *1					ARRL
UGT1A1 Genotyping Specimen	Whole Blood					ARRL
UGT1A1 Genotyping Allele 2	(TA)7 or *28	AB				ARRL
UGT1A1 Genotyping Interp	See Note					ARRL
Indications for ordering: - Determine sensitivity to ir - Confirm a diagnosis of Gilb	inotecan or rel ert Syndrome.	lated compo	ounds.			
Heterozygous UGT1A1 (TA)6/(TA) one copy of *28 (TA)7 were det UGT1A1 enzyme levels are antic based on clinical findings. He allele has not been associated (benign familial hyperbilirubi	7: One copy of ected. Partiall ipated. Dosing terozygosity fo with Gilbert's nemia).	*1 (TA)6 a ly decrease should be or the *28 s syndrome	and ed			
This result has been reviewed a Fulmer, Ph.D. BACKGROUND INFORMATION: UDP GL (UGT1A1) Genotyping	and approved by ucuronosyltrans	y Makenzie sferase 1A3	L			
CHARACTERISTICS: UGT1A1 is resp drugs (e.g., irinotecan) and end bilirubin). Irinotecan's major (SN-38) is inactivated by the under eliminated via the bile. UGT1A accumulation of SN-38, which mu toxicities (neutropenia, diarri CAUSE: Variations in TA repeat of the 5'UGT1A1-promoter affect The common number of repeats i. while seven repeats [(TA)7, *2 reduced transcription activity allele is also associated with familial hyperbilirubinemia). ALLELES TESTED: *36 allele, (T. alelle, (TA)7 and *37 allele, CLINICAL SENSTIVITY/SPECIFICIT toxicity by genotype (Br J Can 6/6 (*1/*1): diarrhea 17 per 6/7 (*1/*28): diarrhea 33 pe 7/7 (*28/*28): diarrhea 70 p	ponsible for the ndobiotic compo- active and toy UGT1A1 enzyme at 1 gene mutation any lead to irin hea). number in the ts transcriptic s six [(TA)6, * 8 allele] is as . Homozygosity . Gilbert Syndro (TA)5; *1 allele (TA)8. Y: Risk of irin cer (2004) 91:6 cent; neutroper rcent; neutroper ercent; neutroper	the clearand bunds (e.g. kic metabol and then hs cause hotecan-rel TATAAA ele on efficient allele], ssociated to for the (Ta)6; e, (TA)6; hotecan 578-82). hia 15 percenta 27 per benia 20 per benia 40 per	ce of ., lite lated ement ncy. , with TA) 7 n *28 cent ccent ercent			
ALLELIC FREQUENCY:		-				

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



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Referral Testing										
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<u>Test Name</u>	ResultFlag*1(TA)6: Caucasians 0.61, Asians 0.84, African Americ0.47*28(TA)7: Caucasians 0.39, Asians 0.16, African Ameri0.43	Ref-Range ans cans	<u>s L</u>	<u>nits</u>	<u>Site</u>					
	METHODOLOGY: Polymerase chain reaction followed by size analysis using capillary electrophoresis. ANALYTICAL SENSTIVITY: Greater than 99 percent. LIMITATIONS: Variations in the UGT1A1 gene, other than those targeted, will not be detected. Clinical signific of the rare *36, (TA)5 and *37, (TA)8 alleles in predic irinotecan toxicities is not well established. Genetic non-genetic factors other than UGT1A1, may contribute t irinotecan toxicity and efficacy. Diagnostic errors can occur due to rare sequence variations.	ance ting and o								
	This test was developed and its performance characteris determined by ARUP Laboratories. It has not been cleare approved by the US Food and Drug Administration. This t was performed in a CLIA certified laboratory and is intended for clinical purposes.	tics d or est								
	Counseling and informed consent are recommended for gen testing. Consent forms are available online. Performed By: ARUP Laboratories 500 Chipeta Way Salt Lake City, UT 84108 Laboratory Director: Jonathan R. Genzen, MD, PhD CLIA Number: 46D0523979	etic								
			P 500 Chinata Way	Perforn	ning Site:					
	Reported	Date: 202	23.09.06	14:29 UG	T1G					

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

F306000028 WX0000003827 Printed D&T: 09/06/23 14:30 Ordered By: KAJAL SITWALA, MD, PhD WX0000000002365

Kajal V. Sitwala, MD, PhD - Medical Director Form: MM RL1 PAGE 2 OF 2