

Patient Name SAMPLEREP, U1A1	Patient ID SA00055132	Age 46	Gender F	Order # SA00055132
Ordering Phys UNKNOWN, PROVIDER				DOB 06/10/1966
Client Order # SA00055132	Account Information		Report Notes	
Collected 03/15/2013 01:08	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 05/28/2013 14:32				

Test	Flag	Results	Unit	Reference Value	Perform Site*
UGT1A1 TA Repeat Genotype			REPORTED	05/28/2013 13:09	
TA/TA		6/6			MCR
UGT1A1 TA Repeat Genotype					MCR
<p>Homozygous for the TA6 repeat allele. This individual is homozygous for the UGT1A1 TA6 repeat normal allele. This genotype is consistent with extensive (normal) metabolism of SN-38 and is not associated with significant risk for severe neutropenia. The irinotecan drug labeling should be consulted for normal drug dosing recommendations.</p> <p>Following amplification in the polymerase chain reaction, the number of TA repeats is determined by capillary electrophoresis.</p> <p>There are numerous polymorphisms and rare mutations that affect glucuronidation. This test measures only the TA copy number of the TATAA box of the promoter. A negative test result does not fully exclude risk for adverse drug reactions with irinotecan chemotherapy.</p> <p>SN-38 metabolism is affected not only by polymorphisms and mutations in the UGT1A1 gene, but is affected as well by other drug-drug interactions.</p> <p>Drugs known to increase the concentrations of irinotecan and its active metabolite SN-38 are effective inhibitors of the cytochrome P450 3A family of enzymes (CYP3A4 and CYP3A5) which are also involved in the metabolism of irinotecan: Atazanavir sulfate, Ketoconazole (discontinue Ketoconazole at least 1 week prior to and during therapy).</p> <p>Drugs and herbal supplements known to decrease the concentration of irinotecan and its active metabolite SN-38 are inducers of the cytochrome P450 3A family of enzymes (CYP3A4 and CYP3A5): Carbamazepine, Phenobarbital, Phenytoin, St. John's Wort.</p> <p>Phenobarbital is also an inducer of UGT1A1 and may result in increased glucuronidation of SN-38 with a resultant decrease in SN-38 availability.</p> <p>Laboratory developed test.</p>					
Reviewed by		Jamie Bruflat			MCR

Performing Site Legend on Last Page of Report

Patient Name SAMPLEREP, U1A1	Collection Date and Time 03/15/2013 01:08	Report Status Final
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* Report times for Mayo performed tests are CST/CDT

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 >> Do Not Discard <<

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:
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Patient Name SAMPLEREPORT,U1A1	Collection Date and Time 03/15/2013 01:08	Report Status Final
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