

Example Client, XYZ123 1234 Warde Road Ann Arbor MI 48108

EXAMPLE, REPORT W WX0000003826 F 12/05/1988 34 Y

Referral Testing							
		Collected: 09	/14/2023	3 15:26	Received:	09/14/2023	15:26
Test Name		Result	Flag	Ref-Ranges	<u>i</u> <u>l</u>	<u>Jnits</u>	<u>Site</u>
Microsatellite Instability, Tumor Result Summary		SEE BELOW					MMRL
	RESULT: MSI-H (Microsatellite	Instability-High)					
Result		SEE BELOW					MMRL
	Provided diagnosis: endometrial adenocarcinoma Positive (instability observed in 7 of 7 informative markers)						
Interpretati	on	SEE BELOW					MMRL
	High levels of microsatellite instability (MSI-H) are indicative of defective DNA mismatch repair function within the tumor.						
	THERAPEUTIC IMPLICATIONS Current data suggest that advanced stage solid tumors with defective DNA mismatch repair (MSI-H) are more likely to respond to treatment with immunotherapies such as anti-PD-1 therapies (Science. 2017 Jul 28;357(6349):409-413(PMID 28596308); J Clin Oncol. 2018 Jan 20:JCO2017769901 (PMID 29355075)). HEREDITARY IMPLICATIONS These results increase the risk that this individual has Lynch syndrome. However, MSI testing does not distinguish between a somatic (not heritable) and a germline (heritable) defect in one of the DNA mismatch repair genes, nor does it provide information as to which gene might be involved. The use of immunohistochemistry (IHC / MMR Protein, IHCO Only, tumor), followed by germline mutational analysis, can further evaluate the possibility of Lynch syndrome in this individual. A genetic consultation may be of benefit.						
	ADDITIONAL INFORMATION Consideration of these results information, may aid in clinic this patient.	s, in light of othe cal management deci	r clin sions :	ical for			

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

F314000017	
WX000003826	
Printed D&T: 09/14/23 15:30	

Ordered By: KAJAL SITWALA, MD, PhD WX0000000002353



Example Client, XYZ123 1234 Warde Road Ann Arbor MI 48108 **EXAMPLE, REPORT W** WX0000003826 F 12/05/1988 34 Y

Referral Testing								
	Collected: 0	9/14/2023	3 15:26	Received:	09/14/2023	15:26		
Test Name	Result	Flag	Ref-Ranges	<u> </u>	<u>Units</u>	<u>Site</u>		
	Of note, the literature suggests that MSI analy neoadjuvant chemoradiated tumor specimens may i status and lead to an erroneous interpretation (Int J Radiat Oncol Biol Phys. 2007 68(5):1584)	sis on nfluence of resu: •	e MSI lts					
	These data should be interpreted in the context histopathologic findings. A surgical pathology be ordered separately. If immunohistochemistry the mismatch repair proteins was also ordered on th the results will be reported separately under t (IHC / MMR Protein, IHC Only, Tumor). For quest regarding the interpretation of IHC and MSI res contact the Genomics Laboratory at 1-800-533-17	of the consult (IHC) for is spec: est code ions ults, pi 10.	may or imen, e IHC lease					
	<pre>contact the Genomics Laboratory at 1-800-533-1710. ADDITIONAL INFORMATION Microscopic examination was performed by a pathologist to identify areas of normal and tumor for enrichment by macrodissection. A PCR-based assay is used to test for tumor microsatellite instability (TMSI) with the use of 7 mononucleotide repeat markers (ACVR2A, BTBD7, DIDO1, MRE11, RYR3, SEC31A, and SULF2). The tumor tissue is classified as MSS (instability detected in 0 or 1 out of 7 markers), or MSI-H (instability in 2 or more of 7 markers tested). Due to the sensitivity of the method being used, microsatellite instability cannot be reliably detected in colorectal samples containing less than 20% tumor DNA or samples from other tumors containing less than 40% tumor DNA. Samples are routinely macrodissected to enrich for tumor cells, with colorectal samples less than 20% and other tumor types less than 40% rejected from further testing. Test results should be interpreted in the context of clinical findings, family history, and other laboratory data. If results obtained do not match other clinical or laboratory findings, please contact the laboratory for possible interpretation. Misinterpretation of results may occur if the information provided is inaccurate or incomplete.</pre>							
	This test was developed and its performance cha determined by Mayo Clinic in a manner consisten requirements. This test has not been cleared or the U.S. Food and Drug Administration.	t with (approve	CLIA CLIA ed by					
Specimen	Tissue, Tumor					MMRL		
Source Tissue ID	12-34-567-89					MMRL		

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

F314000017 WX0000003826 Printed D&T: 09/14/23 15:30 Ordered By: KAJAL SITWALA, MD, PhD WX0000000002353

Kajal V. Sitwala, MD, PhD - Medical Director Form: MM RL1 PAGE 2 OF 3



Example Client, XYZ123 1234 Warde Road Ann Arbor MI 48108 **EXAMPLE, REPORT W** WX0000003826 F 12/05/1988 34 Y

	Re	ferral Testing	J				
		Collected: 09/14	/2023	15:26	Received:	09/14/2023	15:26
<u>Test Name</u> Release By	Resu SEE	I <u>t</u> <u>F</u> I BELOW	lag	<u>Ref-Ranges</u>		<u>Units</u>	<u>Site</u> MMRL
I	RESULT: Kandelaria M. Rumilla, M.D.						
: 2 1	Test Performed by: Mayo Clinic Laboratories - Rocheste 200 First Street SW, Rochester, MN Lab Director: William G. Morice M.D	r Main Campus 55905 . Ph.D.; CLIA# 2	24D04	04292			

Performing Site:

MMRL: MAYO MEDICAL REFERENCE LAB 3050 Superior Drive NW Rochester MN 55901

Reported Date: 2023.09.14 15:29 TMSI