Patient Name	Patient ID	Age	Gender	Order #
TESTINGRNV,FH2UR ABNORMAL	SA00058792	22	F	SA00058792
Ordering Phys CLIENT,CLIENT				**DOB** 01/01/1991
Client Order # SA00058792	**Account Information**			**Report Notes**
Collected 06/06/2013 08:00	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 07/09/2013 14:49				

Test	Flag	Results	Unit	Reference Value	Perform Site*
HER2 Amp, Urothelial, FISH					
RECEIVED: 06/06/2013 09:06 **REPORTED:** 06/07/2013 10:03					
Specimen		Tissue-Paraffin			MCR
Specimen ID		1062157			MCR
Source					MCR
Bladder 123456789 A18					
Order Date		06 Jun 2013 09:33			MCR
Reason For Referral					MCR
r/o HER2 gene amplification					
Fixative		Formalin			MCR
Method					MCR
FISH using probes for HER2 (17q12) and a chromosome 17 centromere (D17Z1) control probe (PathVysion, Abbott Molecular, Inc). Two technologists score signals in 60 total nuclei from invasive or metastatic tumor and concurrent controls.					
Results					MCR
nuc ish(D17Z1x2,ampHER2)					
The HER2:D17Z1 ratio is 10.2 Average HER2 signals per nucleus is 21.4. Average D17Z1 signals per nucleus is 2.1.					
Interpretation					MCR
The result is abnormal. The invasive tumor nuclei demonstrate HER2 gene amplification (per ASCO/CAP guidelines) in this biopsy. The HER2:D17Z1 ratio is 10.2.					
Amplification of the HER2 gene is usually associated with HER2 overexpression in urothelial carcinoma.					
The HER2 FISH results for this tumor specimen are interpreted using the ASCO/CAP guidelines for breast adenocarcinoma.					
ASCO/CAP reporting guidelines (Wolff et al., Arch Path Lab Med 131:18-43, 2007): A HER2:D17Z1 ratio less than 1.8 indicates absence of HER2 gene amplification. A HER2:D17Z1 ratio from 1.8-2.2 is equivocal for HER2 gene amplification. A HER2:D17Z1 ratio greater than 2.2 indicates HER2 gene amplification when there are greater than 6 HER2 signals per nucleus.					

Performing Site Legend on Last Page of Report

* Report times for Mayo performed tests are CST/CDT

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DISCLAIMER: This test was developed and its performance characteristics determined by Laboratory Medicine and Pathology, Mayo Clinic, Rochester MN. It is intended as an adjunct to existing prognostic clinical and pathologic information for urothelial cancer patients. This test is not intended to diagnose or screen for urothelial cancer. Since only a portion of the tumor was tested, it is possible that this result may not represent the entire tumor population. Per ASCO/CAP guidelines, HER2 FISH test results are valid for non decalcified paraffin embedded specimens fixed in 10% neutral buffered formalin between 6 and 48 hours. Results from specimens fixed outside these parameters should be interpreted accordingly.					
Reviewed By		Christina M Radtke			MCR
Released Date		07 Jun 2013 09:58			MCR

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.