

Test Description

MSI testing is used for Hereditary Cancer screening (Hereditary Non-Polyposis Colorectal Cancer -HNPCC or Lynch syndrome); As a biomarker (Prognostic and predictive biomarker for the response of Immunotherapy)

Patient Demographic

Name: Ratan Lal Gupta Sex: Male Date of Birth/Age: 85 years Disease: Moderately Differentiated Adenocarcinoma of Rectum

Clinician

Clinician Name: Dr Amit Verma Medical Facility: Max Hospital Pathologist: Not Provided

Specimen

Site: Rectum Sample Type: FFPE block SB-2683/19 Date of Collection: 14-08-2019 Date of Booking: 09-08-2019

iMSI RapidTM Assay

Result Microsatellite - High (MSI-H)

BIOMARKER FINDINGS

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ACVR2A	Mutation detected
BTBD7	Mutation detected
DIDO1	Mutation detected
MRE11	Mutation detected
RYR3	Mutation detected
SEC13A	Mutation detected
SULF2	Mutation detected

INTERPRETATION

Mutations are detected in all 7 markers*MSS<2 of the 7 markers demonstrate instability	
[#] MSI-H	≥ 2 of the 7 markers demonstrate instability
	ellite stable
# Microsatellite Instability-High For valid batch test results specific controls are being run with every batch.	

METHODOLOGY

Multiplex detection of seven mononucleotide repeats using molecular beacon probe-based polymerase chain reaction followed by high resolution melt-curve analysis. The assay uses seven novel biomarkers *ACVR2A*, *BTBD7*, *DIDO1*, *MRE11*, *RYR3*, *SEC31A* and *SULF2* as this set of biomarkers is stable over different cancer types and ethnicities and show high performance than other known assays like *Bethesda Panel*. This test is carried out on Idylla platform using the MSI/1.0 Cartridge based kit which is CE IVD approved.

REFERENCES

Zhao et al. (2014) eLife 3: e02725, 1-26.
De Craene B. et al. (2018) ASCO Abstract #e15639.
Zhao et al. (2018) ASCO Abstract #e15654

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Date