Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB	12/31/1752
Gender:	Unknown
Patient Identifiers:	01234567890ABCD, 012345
Visit Number (FIN):	01234567890ABCD
Collection Date:	01/01/2017 12:34

Multiple Myeloma Panel by FISH

ARUP test code 3002063

Multiple Myeloma Panel by FISH

See Note (Ref Interval: Normal)

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Specimen Received
Specimen Type:        Bone Marrow (CD138+)
Reason for Referral:  Multiple Myeloma
Test Performed:       FISH, MMP
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ABNORMAL FISH RESULTS
1q21 (CKS1B):  gain present
t(14;20)(q32;q12) (IGH;MAFB):  translocation present

NORMAL FISH RESULTS
t(4;14)(p16;q32) (FGFR3;IGH):  translocation not detected
9q34 (ASS1):  gain not detected
11q13 (CCND1):  gain not detected
t(11;14)(q13;q32) (CCND1;IGH):  translocation not detected
t(14;16)(q32;q23) (IGH;MAF):  translocation not detected
17p13 (TP53):  deletion not detected

DIAGNOSTIC IMPRESSION:
Fluorescence in situ hybridization (FISH) analysis was performed
with the following MM panel probes on CD138+ sorted cells:
CKS1B, TP53, and IGH/MAFB Plus (Cytocell); and IGH/FGFR3, ASS1,
CCND1/IGH XT, and IGH/MAF (Abbott Molecular). 100 interphase
cells were scored for each probe combination.

This analysis showed:
- 3-4 copies of the CKS1B locus at 1q21 in 150/200 (75.0
percent) cells scored.
- IGH/MAFB fusion consistent with t(14;20) in 150/200 (75.0
percent) cells scored.

FISH analysis with the remaining MM panel probes showed normal
results with no evidence of t(4;14), t(11;14), t(14;16), gain of
chromosomes 9 or 11, or TP53 deletion.

In multiple myeloma, gain of CKS1B and t(14;20)(q32;q12)
IGH/MAFB are generally associated with high risk disease.

Please correlate this result with clinical and other laboratory
findings.

ISCN:
nuc ish(CKS1Bx3-4,TP53x2)[150/200],(FGFR3x2)[200],(ASS1x2)[200],
(CCND1x2)[200],(MAFx2)[200],
(IGHx3,MAFBx3)(IGH con MAFBx2)[150/200]

This result has been reviewed and approved by [redacted]
Ph.D., FACMG
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H=High, L=Low, *=Abnormal, C=Critical

INTERPRETIVE INFORMATION: Chromosome FISH, Multiple Myeloma Panel

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement A: aruplab.com/CS

EER Multiple Myeloma Panel by FISH

See Note

Access ARUP Enhanced Report using the link below:

-Direct access:

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Multiple Myeloma Panel by FISH	20-139-117746	5/18/2020 3:15:00 PM	5/19/2020 7:34 08 AM	5/19/2020 4:11:00 PM
EER Multiple Myeloma Panel by FISH	20-139-117746	5/18/2020 3:15:00 PM	5/19/2020 7:34 08 AM	5/19/2020 4:11:00 PM

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical