\*\*\*Example Report\*\*\*

ARUP Laboratories

500 Chipeta Way – Salt Lake City, UT 84108 (800)522-2787 - www.aruplab.com Julio C.Delgado, M.D. M.S., Director of Laboratories Patient Age/Gender: 61 years Male Printed: 09-Mar-18 10:21:10

09:32:00 09:34:00 10:44:12

 Procedure
 Result
 Units
 Ref Interval [Normal]
 Accession
 Collected Received (0016cted Received (0

02-Mar-18 09:32:00 Ph-Like ALL Panel by FISH:

Specimen Received

Specimen Type: Bone Marrow Reason for Referral: PH-like ALL Test Performed: F PHLK ALL

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ABNORMAL FISH RESULT

9p24 (JAK2): rearrangement present

NORMAL FISH RESULT

Xp22.33/Yp11.32 (CRLF2): rearrangement not detected

1q25.2 (ABL2): rearrangement not detected 5q32 (CSF1R): rearrangement not detected 5q32 (PDGFRB): rearrangement not detected 9q34 (ABL1): rearrangement not detected 19p13.2 (EPOR): rearrangement not detected

## DIAGNOSTIC IMPRESSION:

Fluorescence in situ hybridization (FISH) analysis was performed using the CRLF2 distal/proximal, ABL2, CSF1R, PDGFRB, ABL1, EPOR (Cytocell) and JAK2 (Metasystems) probes. 200 interphase cells were scored for each probe combination.

This analysis showed evidence of a 9p24 rearrangement involving the JAK2 locus in 95/200 (47.5 percent) cells scored.

FISH analysis with the remaining probes showed normal results with no evidence of rearrangement involving the CRLF2, ABL2, CSF1R, PDGFRB, ABL1, or EPOR.

Rearrangement of JAK2 is a recurrent finding in BCR-ABL1 like B-ALL.

Please correlate this result with other clinical and laboratory findings.

## REFERENCES

WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues: International Agency for Research on Cancer, 2017.

## ISCN:

nuc ish(CRLF2x2)[200],
(ABL2x2)[200],(CSF1Rx2)[200],
(PDGFRBx2)[200],(ABL1x2)[200],(JAK2x2)(5'JAK2 sep 3'JAK2x1)[95/200],
(EPORx2)[200]

This result has been reviewed and approved by Xinjie Xu,  ${\tt PhD}, \; {\tt FACMG}$  Electronic Signature

02-Mar-18 09:32:00 Ph-Like ALL Panel by FISH:
INTERPRETIVE INFORMATION: Ph-Like Acute Lymphocytic
Leukemia (ALL) Panel by FISH

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

\* Abnormal, # = Corrected, C = Critical, f = Footnote, H = High, L = Low, t = Interpretive Text, @ = Reference Lab

Chart ID: 12591165 Page 1 of 1