

Patient: [REDACTED]
DOB: [REDACTED] Age: 3 Gender: F
Patient Identifiers: [REDACTED]
Visit Number (FIN): [REDACTED]

Client: [REDACTED]
Physician: [REDACTED]

ARUP Test Code: 3000455
Collection Date: 05/11/2019
Received in lab: 05/13/2019
Completion Date: 05/15/2019

Interpretation

Specimen Received
Specimen Type: Bone marrow
Reason for Referral: B-ALL, new diagnosis
Test Performed: F PHLK ALL

ABNORMAL FISH RESULT

9p24 (JAK2): deletion present
9q34 (ABL1): deletion 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
9p24 (JAK2): 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 deletion involving the JAK2 locus in 61/200 (30.5 percent) cells scored.
- a 9q34 deletion involving the ABL1 locus in 53/200 (26.5 percent) cells scored.

These findings suggest a numerical or structural abnormality involving chromosome 9.

FISH analysis with the remaining probes showed normal results with no evidence of rearrangement involving the CRLF2, ABL2, CSF1R, PDGFRB, JAK2, ABL1, or EPOR.

Please correlate this result with other clinical and laboratory findings.

Reference:

Swerdlow SH, Campo E, Harris NL, Jaffe ES, Pileri SA, Stein H, Thiele J (Eds.): WHO classification of Tumours of Haematopoietic and Lymphoid Tissues. IARC: Lyon 2017.

ISCN:

nuc ish(CRLF2x2)[200],
(ABL2x2)[200], (CSF1Rx2)[200],
(PDGFRBx2)[200], (JAK2x1)[61/200], (ABL1x1)[53/200], (EPORx2)[200]

This result has been reviewed and approved by Bo Hong, MD, FACMG



Patient: [REDACTED]
ARUP Accession: 19-131-106421
[REDACTED]

Ph-Like Acute Lymphocytic Leukemia (ALL) Panel by FISH

Patient: [REDACTED] | Date of Birth: [REDACTED] | Gender: F | Physician: [REDACTED]
Patient Identifiers: [REDACTED] | Visit Number (FIN): [REDACTED]

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



Patient: [REDACTED]
ARUP Accession: 19-131-106421
[REDACTED]