

Patient: [REDACTED]  
DOB: [REDACTED] Age: 36 Gender: M  
Patient Identifiers: [REDACTED]  
Visit Number (FIN): [REDACTED]

Client: [REDACTED]  
Physician: [REDACTED]

ARUP Test Code: 2002647  
Collection Date: 10/01/2018  
Received in lab: 10/02/2018  
Completion Date: 10/04/2018

**Interpretation**

Specimen Received  
Specimen Type: Bone Marrow  
Reason for Referral: Large cell lymphoma  
Test Performed: FISH A ALL

**ABNORMAL FISH RESULT**  
8q24 (MYC): rearrangement present

**NORMAL FISH RESULTS**  
t(9;22)(q34;q11.2) (ABL1;BCR): translocation not detected  
11q23 (KMT2A; also known as MLL): rearrangement not detected  
14q32 (IGH): rearrangement not detected  
19p13 (TCF3): rearrangement not detected

**DIAGNOSTIC IMPRESSION:**  
Fluorescence in situ hybridization (FISH) analysis was performed with the MYC, BCR/ABL1/ASS1 Tricolor, KMT2A (MLL), and IGH probes (Abbott Molecular), and the TCF3 (E2A) probe (Cytocell). 200 interphase cells were scored for each probe combination.

This analysis showed a MYC rearrangement in 102/200 (51.0 percent) cells scored.

FISH analysis with the remaining probes showed normal results.

A MYC translocation is most commonly associated with Burkitt lymphoma but is also observed in other B-cell neoplasms. Please correlate these results with clinical and other laboratory findings in this patient.

**Reference:**  
Swerdlow SH, Campo E, Harris NL, Jaffe ES, Pileri SA, Stein H, Thiele J, Vardiman JW. (Eds.): WHO classification of Tumours of Haematopoietic and Lymphoid Tissues. IARC: Lyon 2008.

**ISCN:**  
nuc ish(MYCx2)(5'MYC sep 3'MYCx1)[102/200],  
(ASS1,ABL1,BCR)x2[200],  
(KMT2Ax2)[200],  
(IGHx2)[200],  
(TCF3x2)[200]

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

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement A: [aruplab.com/CS](http://aruplab.com/CS)



Patient: [REDACTED]  
ARUP Accession: 18-274-401851  
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