

Patient: [REDACTED]
 DOB: [REDACTED] Age: 17 Gender: M
 Patient Identifiers: [REDACTED]
 Visit Number (FIN): [REDACTED]

Client: [REDACTED]
 Physician: [REDACTED]

ARUP Test Code: 2007130
 Collection Date: 03/20/2018
 Received in lab: 03/21/2018
 Completion Date: 03/29/2018

Interpretation

 Specimen received

Specimen type: Bone Marrow (Right)
 Reason for referral: B-Cell neoplasm; Burkitt Lymphoma, DLBCL,
 B-ALL
 Test performed: Chromosome Analysis

Laboratory analysis

Number of cells counted: 25
 Number of cells analyzed: 25
 Number of cells karyotyped: 18
 ISCN Band level: 400
 Banding Method: G-Banding

 Chromosome Results: 47,XY,t(8;14)(q24;q32),+mar[1]/46,XY[24]

Diagnostic Impression:

Two cell lines were detected in multiple cultures from this patient. One cell line showed a translocation between chromosomes 8 and 14, and gain of a marker chromosome in 1/25 (4%) cells.

The remaining 24/25 (96%) cells showed a normal male chromosome complement.

t(8;14) and marker was observed in only a single cell. In general, a single cell abnormality does not define an abnormal clone and is interpreted as in-vitro artifact. However, in this case, the presence of t(8;14) and marker was observed in a concurrent chromosome study from a Left side specimen (ARUP accession 18079118552). Therefore, this single cell is presumed to be part of an abnormal clonal population based on concurrent chromosome studies.

The (8;14)(q24;q32) translocation resulting in IGH/MYC rearrangement is a recurrent abnormality observed in lymphoid disorders, most frequently in non-Hodgkin lymphomas, especially Burkitt lymphoma. Clinical correlation is recommended.

Since this analysis revealed an abnormal result, the cytogenomic microarray analysis, which was ordered as a reflex study, will not be performed unless we are notified otherwise. Please contact ARUP Client Services at 1-800-242-2787 if you want to pursue the microarray analysis.

NOTE: FISH P ALL and FISH ALYMP were performed on this sample and reported under ARUP accessions 18079118697 and 18079118698 respectively. FISH results were NORMAL. With low level



Patient: [REDACTED]
 ARUP Accession: 18-079-118681

Chromosome Analysis, Bone Marrow with Reflex to Genomic Microarray

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mosaicism, the sensitivity of the technique that detects mosaicism may vary. The culture technique may have enriched the abnormal cell line in chromosome analysis.

This result has been reviewed and approved by Xinjie Xu, PhD,
FACMG
Electronic Signature

NOTE: Only the Chromosome Analysis, Bone Marrow results are reported on this enhanced report. When the result of Cytogenetics Result is either "no growth" or "normal," Cytogenomic SNP Microarray - Oncology is performed. If the cytogenomic microarray test was performed, those results can be accessed via a patient report or electronic medical records system after the genomic microarray has been completed.

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

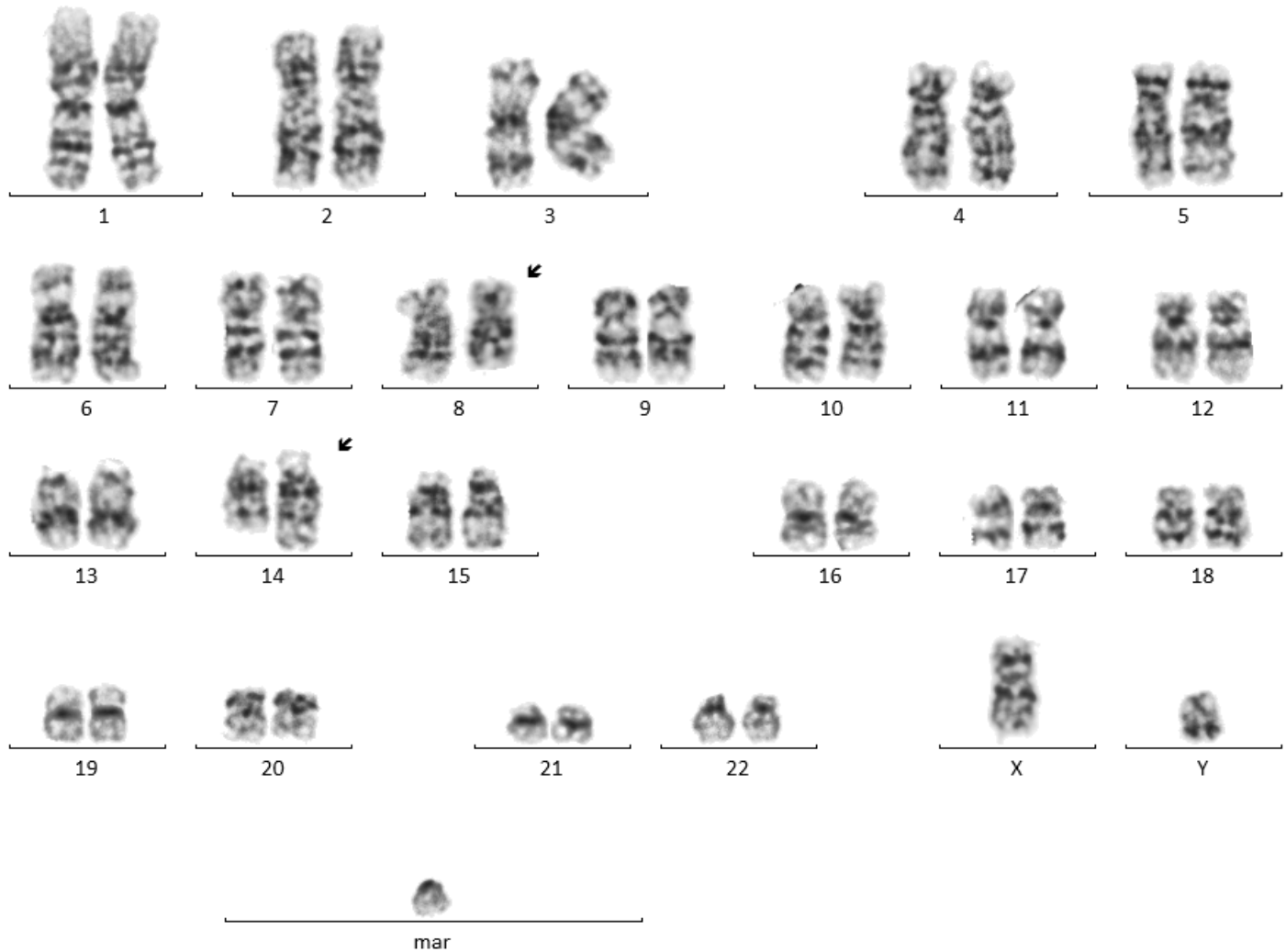


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Chromosome Analysis, Bone Marrow with Reflex to Genomic Microarray

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

Slide ID: 0064



Chromosome Analysis, Bone Marrow with Reflex to Genomic Microarray

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

Slide ID: 0090

