

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

Physician: Doctor, Example

Patient: Patient, Example

DOB 1/25/1942
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Chromosome Analysis, Lymph Node

ARUP test code 2002300

Chromosome Analysis, Oncology See Note (Ref Interval: Normal)

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

Specimen received

Specimen type: Lymph Node
Reason for referral: Neoplasm of uncertain behavior of breast,
right, R/O lymphoma
Test performed: Chromosome Analysis

Laboratory analysis

Number of cells counted: 21
Number of cells analyzed: 21
Number of cells karyotyped: 21
ISCN Band Level: 400
Banding Method: G-Banding

Chromosome Results:

47,XX,+X,+X,dic(1;3)(p13;p21),t(8;14)(q24;q32),del(17)(p11.2),add
(19)(q13.3)[19]/46,XX[2]

Diagnostic Impression:

Two cell lines were detected in multiple cultures from this patient. One cell line showed the following clonal abnormalities in 19/21 (90%) cells:

- gain of two copies of chromosome X;
- a dicentric chromosome involving the short arms of chromosome 1 and the short arm of chromosome 3, resulting in a loss of material from 1p and 3p;
- a translocation between chromosomes 8 and 14;
- a deletion in the short arm of chromosome 17;
- added material of uncertain origin on the long arm of chromosome 19.

The remaining 2/21 (10%) cells showed a normal female chromosome complement.

This is a complex karyotype with numerical and structural abnormalities observed in B-cell lymphoproliferative disorders; including t(8;14) and loss of 17p material (TP53). The rearrangement of chromosome 8 is expected to result in IGH/MYC fusion, which is generally associated Burkitt lymphoma or diffuse large B-cell lymphoma. The complexity of this karyotype is consistent with clonal evolution and more advanced disease. Complex karyotypes, MYC rearrangements and loss of the TP53 gene are generally associated with adverse prognosis.

Recommendation:

FISH on this sample with the MYC and TP53 probes may prove useful to establish involvement and determine a baseline for follow-up studies. To add this test to the current sample, please contact ARUP Client Services at 1-800-242-2787 and refer to test code 2002298 (Chromosome FISH, Interphase). Although no extra sample is required, there is an additional charge for this test.

This result has been reviewed and approved by [REDACTED]

A portion of this analysis was performed at the following location(s):

[REDACTED]

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

INTERPRETIVE INFORMATION: Chromosome Analysis, Oncology
Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

EER Chromosome Analysis, Oncology

See Note
Access ARUP Enhanced Report using either link below:
-Direct access: [REDACTED]
-Enter Username, Password: [REDACTED]
Username: [REDACTED]
Password: [REDACTED]

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Chromosome Analysis, Oncology	20-229-400039	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EER Chromosome Analysis, Oncology	20-229-400039	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

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