

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 1/26/2006
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Acute Lymphocytic Leukemia (ALL) Panel by FISH, Pediatric

ARUP test code 2002719

ALL Panel by FISH, Pediatric

See Note (Ref Interval: Normal)

Specimen Received
Specimen Type: Bone marrow
Reason for Referral: B-cell Acute Lymphoblastic Leukemia
Test Performed: FISH P ALL

ABNORMAL FISH RESULTS

4cen (CEP4): gain present
10cen (CEP10): gain present
21q22 (RUNX1): gain present

NORMAL FISH RESULTS

t(9;22)(q34;q11.2) (ABL1;BCR): translocation not detected
11q23 (KMT2A; also known as MLL): rearrangement / deletion not detected
t(12;21)(p13;q22) (ETV6;RUNX1): translocation not detected
12p13 (ETV6): deletion not detected
21q22 (RUNX1): amplification not detected

DIAGNOSTIC IMPRESSION:

Fluorescence in situ hybridization (FISH) analysis was performed with chromosome 4 and 10 centromere probes, BCR/ABL1/ASS1 Tricolor, ETV6/RUNX1 (also known as TEL/AML1), and KMT2A (MLL) probes (Abbott Molecular). 200 interphase cells were scored for each probe combination.

This analysis showed evidence of:

- trisomy 4 in 150/200 (75.0 percent) cells scored,
- trisomy 10 in 137/200 (68.5 percent) cells scored,
- 3-4 copies of the 21q22 RUNX1 locus in 159/200 (79.5 percent) cells scored.

FISH analysis with the remaining probes showed normal results.

Gain of signals for CEP4, CEP 10 and RUNX1 suggests a hyperdiploid clonal population with gains of at least chromosomes 4, 10 and 21. In the context of B-ALL, hyperdiploidy is associated with a favorable prognosis. Please correlate these results with clinical and other laboratory findings in this patient.

ISCN:

nuc ish(CEP4x3)[150/200],(CEP10x3)[137/200],
(ASS1x2,ABL1x2,BCRX2)[200],
(KMT2Ax2)[200],(ETV6x2,RUNX1x3-4)[159/200]

This result has been reviewed and approved by [REDACTED]

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

INTERPRETIVE INFORMATION: ALL Panel by FISH, Pediatric
Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement A: aruplab.com/CS

EER ALL Panel by FISH, Pediatric

See Note
Access ARUP Enhanced Report using the link below:
-Direct access: [REDACTED]

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
ALL Panel by FISH, Pediatric	20-316-402331	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EER ALL Panel by FISH, Pediatric	20-316-402331	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