

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 5/14/1934
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

FNA Final Report Refer to test 2000443 Cytology, Fine Needle Aspirate

ARUP test code 2000626

Clinical History

Clinical Information: CLL.
ICD Code(s): R93.89

Interpretation

LIVER, ULTRASOUND-GUIDED CORE NEEDLE BIOPSY WITH TOUCH PREPARATIONS:

- Adenocarcinoma in liver.
- Focal involvement of background liver by chronic lymphocytic leukemia/small lymphocytic leukemia (CLL/SLL)
- See comments.

09/18/24 Reviewed by: [REDACTED]

09/23/24 Verified By: [REDACTED]

I certify that I personally conducted the evaluation on the above specimen(s) and have rendered the above interpretation(s).

University of Utah Health Care, Department of Pathology
Huntsman Cancer Institute
2000 Circle of Hope, RM 3100
Salt Lake City UT 84112

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

Comments

Touch preparations show groups of cohesive malignant appearing epithelial cells. Core biopsies demonstrate infiltrative, poorly formed glands and small angulated nests. CK7 and HNF1B are diffusely positive while CK20 and CDX2 are patchy positive in malignant cells. NKX 3.1, PAX8, GATA3, and TTF1 are negative. Overall findings are consistent with adenocarcinoma in liver. The morphology and immunohistochemical profile are nonspecific; however, a gastrointestinal or pancreatobiliary (specifically cholangiocarcinoma) primary is favored. Correlate with clinical and radiologic findings.

The workup of lymphocytic aggregates in the background benign liver show the neoplastic lymphocytes to be positive for CD5, CD23, LEF1, partial CD20, and negative for cyclinD1 and CD3. A CD19 was attempted but the area of interest was no longer present. The overall phenotype of the lymphocytes is that of chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL). No large cell transformation is identified.

Tumor tissue in the block (1A) is likely adequate for further testing (e.g., additional immunohistochemical stains or molecular profiling) if needed.

██████████ has reviewed representative slide(s) from this case and concurs with the diagnosis of malignancy (adenocarcinoma).
██████████ reviewed this case and contributed to the CLL/SLL workup and diagnosis. Stains performed at ARUP Laboratories on block(s) 1A. Controls performed as expected.

Microscopic Examination

Immunohistochemical stains for CD19, CD3, CD20, CD5, CD23, LEF1, and CycD1 SP4 are performed on block 1A at ARUP Laboratories with appropriately reactive controls.

Specimen Adequacy

Satisfactory for interpretation.

Fine Needle Aspirate Specimen Source

Core Bx Source: Liver
EVALUATION EPISODES: 1 (Adequacy only)
Fixative: Formalin

Gross Description/Preparations Made

Received 3 Diff-Quik TouchPrep slides labeled

The specimen is received in formalin, labeled with patient's name, medical record number, and per the requisition "liver". It consists of 3 tan-red needle core(s) ranging from 2.1-2.5 cm in length x 0.1 cm in diameter.

The specimen is submitted in toto, wrapped in biopsy paper, in one cassette labeled 1A.

Resident involved.

Fellow involved.

Resident

██████████

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

Unless otherwise indicated, testing performed at:

Fellow



VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Clinical History	FA-240-049492	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Interpretation	FA-240-049492	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Comments	FA-240-049492	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Microscopic Examination	FA-240-049492	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Specimen Adequacy	FA-240-049492	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Fine Needle Aspirate Specimen Source	FA-240-049492	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Gross Description/Preparations Made	FA-240-049492	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Resident	FA-240-049492	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Fellow	FA-240-049492	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

Unless otherwise indicated, testing performed at: