

## Case Report: Lymphoepithelioma like Carcinoma of the Gallbladder

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### Background

- Lymphoepithelioma-like carcinoma (LELC) is a rare and unique subtype of cancer that histologically resembles undifferentiated nasopharyngeal carcinoma.
- Lymphoepithelioma was originally described in the nasopharynx of Asian patients.
- Few cases of pure type LELC of the gallbladder have been reported.

### Clinical Presentation

- 38 year old female presented with pain over right hypochondrium and epigastric region since two months.
- Serological investigations revealed she was positive for Hepatitis C.
- Physical examinations revealed no abnormal findings.
- Sonography of the abdomen showed abnormal gallbladder wall thickening and presence of multiple calculi.
- CT findings were suggestive of neoplastic etiology.

### Histopathology

- The tumor consisted of nests and individual cells of poorly differentiated carcinoma admixed with prominent lymphoplasmocytic infiltrates.
- The epithelial cells had large vesicular nuclei with occasional large prominent nucleoli .
- Immunohistochemistry was positive for cytokeratin 7 and Pankeratin but negative for cytokeratin 20 and EBV early antigen.
- These findings were consistent with those of EBV-negative LELC. The rest of the tumor consisted of adenocarcinoma. The glandular component was characterized as a well differentiated adenocarcinoma.

### Discussion

- LELC is usually associated with EBV. However, there is no histopathological difference between EBV-positive and EBV-negative LELCs in each organ.
- LELC is classified as pure type when 100% of the tumor demonstrates an LELC pattern or mixed type when the tumor is associated with usual urothelial carcinoma, adenocarcinoma, or squamous cell carcinoma.
- LELC is usually associated with a more favorable prognosis compared to conventional carcinoma.

In conclusion, I report a case of non-EBV-associated mixed type LELC of the gallbladder. Due to the rarity of this disease, additional case studies are needed to establish clinicopathological findings of the same.

### References

Choi NK, Lim SC. Mixed lymphoepithelioma-like carcinoma and adenocarcinoma of the gallbladder. Korean J Hepatobiliary Pancreat Surg. 2016 Aug;20(3):148-51. doi: 10.14701/kjhbps.2016.20.3.148. Epub 2016 Aug 29. PMID: 27621754; PMCID: PMC5018954.

