

3rd International Conference on Gastroenterology and Liver

July 25-26, 2024 | Webinar

Volume : 10

Clinical Impact of Ampulla of Vater Cancer Subtype Classification Based on Immunohistochemical Staining

Jonghyun Lee

Pusan National University Hospital, South Korea

Background: The histological subtype is an important prognostic factor for ampulla of Vater (AoV) cancer. This study proposes a classification system for the histological subtyping of AoV cancer based on immunohistochemical (IHC) staining and its prognostic significance.

Methods: Seventy-five AoV cancers were analyzed for cytokeratin 7 (CK7), CK20, and causal-type homeobox transcription factor 2 (CDX2) expression by IHC staining. We differentiated the subtypes (INT, intestinal; PB, pancreatobiliary; MIX, mixed; NOS, not otherwise specified) into classification I: CK7/CK20, classification II: CK7/CK20 or CDX2, classification III: CK7/CDX2 and examined their associations with clinicopathological factors.

Results: Classifications I, II, and III subtypes were INT (7, 10, and 10 cases), PB (43, 37, and 38 cases), MIX (13, 19, and 18 cases), and NOS (12, 9, and 9 cases). Significant differences in disease-free survival among the subtypes were observed in classifications II and III using CDX2; the PB and NOS subtype exhibited shorter survival time compared with INT subtype. In classification III, an association was revealed between advanced T/N stage, poor differentiation, lymphovascular invasion (LVI), the PB and NOS subtypes, and recurrence risk. In classification III, the subtypes differed significantly in T/N stage and LVI. Patients with the PB subtype had advanced T and N stages and a higher incidence of LVI.

Conclusions: Classification using CDX2 revealed subtypes with distinct prognostic significance. Combining CK7 and CDX2 or adding CDX2 to CK7/CK20 is useful for distinguishing subtypes, predicting disease outcomes, and impacting the clinical management of patients with AoV cancer.

Biography

Jonghyun Lee has his expertise in evaluation and passion in improving the health and wellbeing. He is working as a gastroenterologist at Busan University Hospital in South Korea, with a primary focus on the field of pancreatic and biliary diseases. As a young doctor, he is actively engaged in patient care and research.

keiasikr@nate.com

Abstract received : January 02, 2024 | Abstract accepted : January 04, 2024 | Abstract published : 31-07-2024