

Pathology of AIDS-related Malignancies in Japan

● Date : April 9th (WED), 2014 from 17:30. 4月9日 (水) 17:30

● Place : Lecture Room 2, Medical Education & Library Building 3F.

医学教育図書棟3階 第2講義室

● Speaker : Harutaka Katano, DDS, PhD.

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HIV-1 infection has increased in Asia in these several years. Lymphoma and Kaposi sarcoma (KS) are important complications for AIDS patients also in Japan and Asia. Two human herpes viruses play an important role in the pathogenesis of AIDS-associated malignancies. Kaposi sarcoma-associated herpesvirus (KSHV)/HHV-8 was identified as a causative agent for KS in 1994. We established a KSHV-positive lymphoma cell line from a Japanese patient with primary effusion lymphoma. Antigenic virus proteins were identified from cDNA library of TY-1 with immunoscreening. ELISA using these antigenic proteins revealed low seroprevalence of KSHV among Japanese general population. We also demonstrated that KSHV infected endothelial cells from B cells in the cell-mediated transmission as well as cell free manner. KSHV-encoded latency-associated nuclear antigen 1 (LANA-1) is expressed by all KSHV-infected cells, suggesting that LANA-1 is associated with KSHV oncogenesis. KSHV-encoded microRNAs (miRNAs) are expressed in KS lesions. Association of KSHV encoded miRNAs with oncogenesis will be discussed.

Epstein-Barr virus is another important virus for the pathogenesis of AIDS-related malignancies, especially lymphoma. Asia including Japan is an endemic area of EBV-associated diseases, such as EBV-associated lymphoma, gastric cancer, and nasopharyngeal carcinoma. We investigated Japanese AIDS-related lymphoma clinicopathologically, and found that EBV positivity had decreased among cases of AIDS-related lymphoma. In addition, a novel pathogenesis of HIV-integrated lymphoma will be presented and discussed.



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