EuroSciCon &

August 13-14, 2018 Madrid, Spain

JOINT EVENT 3rd International Conference on **Digital Pathology**

& 7th Global Summit on **Microbiology Research**

Tomoo Itoh, Arch Clin Microbiol 2018, Volume 9 DOI: 10.4172/1989-8436-C4-013

VALIDATION STUDY ON LYMPHOMA DIAGNOSIS USING WSI

Tomoo Itoh

Kobe University Hospital, Japan

Background: Recently, FDA allowed marketing of first whole slide imaging (WSI) system for digital pathology, which enables us use the system even for primary diagnosis. This epoch-making achievement owes a lot to scientific evidences indicated that WSI is eligible for making accurate pathological diagnoses. However, the cases requiring immunohistochemistry or special staining, such as malignant lymphoma, were excluded from those studies.

Objective: To provide an evidence of usability of WSI diagnosis for primary diagnosis of malignant lymphoma compared to conventional glass slide diagnosis and optical microscope.

Design: All retrieved lymphoma cases were digitized using a WSI scanner, NanoZoomer RS (Hamamatsu), with x40 magnification, and a well-trained pathologist for lymphoma diagnosis had reviewed and made diagnosis for the digitized cases with more than two months of washout time interval. Discrepancies between microscope slide and WSI diagnosis were classified into three categories; concordance, major discrepancy (defined as ones associated with significant difference in clinical treatment), and minor discrepancy (defined as ones associated with no significant difference in clinical treatment).



Result: Tentative data showed excellent concordance rate, over than 90%, and which was much better than we expected. We are going to talk about the final data at this conference.

Conclusion: WSI is applicable for primary diagnosis of malignant lymphoma, if we make diagnoses with combination of adequate clinical information, H&E morphology, and immunohistochemistries.

Biography

Tomoo Itoh has completed his PhD at Hokkaido University Graduate School of Medicine and presently he is a Professor and Deputy Director of Diagnostic Pathology at Kobe University Hospital, Japan. He is a Board Certified Member of the Japanese Society of Pathology and Board Certified Member of the Japanese Society of Clinical Cytology. He was President of 15th Annual Meeting of Japanese Society of Digital Pathology held in Kobe in 2016, and now one of the core members of the Society.

tomooitoh@gmail.com

Digital Pathology 2018 & Microbiology Research 2018 Volume 4