

SS2-3 Interactive consultation and conference digital pathology platform system

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= Abstract =

In pathology diagnosis, individual-to-person consultation and small group discussions are common activity. Prior to the introduction of digital pathology systems, the only way to consult experts was to mail slides or visit expert in person and look at the microscope together. In addition, small group discussions required the use of a multi-head microscope or circulating slides by mail. However, this method had problems such as broken glass slides and the need to prepare a multi-head microscope that was expensive but not highly utilized except for group discussion. After the introduction of microscopy camera, personal consultation was possible through attached file of e-mail system. However, in case of small group discussion, sharing microscopic images through social media was preferred, but it was difficult to upload high-magnification images because the file size had to be small to be shared on social media. With the development of internet technology, it became possible to upload large files to a server or cloud system and share them together, but the difficulty of identifying specific question points was a problem that needed to be improved. In collaboration with Infinite Healthcare, the pathology department of Samsung Medical Center developed an interactive digital pathology platform system that allows interactive communication in individual consultation and small group discussions online, which is expected to overcome previous practical hurdles in personal consultation and small group discussion in pathology diagnosis process. We expect the newly developed digital pathology platform system to be one of the future-oriented digital pathology diagnostic models that overcome the practical difficulties experienced in pre-existing consultation and conference procedure.