Olympus’ first results of AI-based Dx tool for gastric cancer

Dec. 1, 2021–Results of Olympus’ ongoing joint research program to create an AI-based pathology diagnostic tool were announced at the Japan Society of Digital Pathology Study annual meeting. The AI tool was able to achieve 100 percent sensitivity and 50 percent or higher specificity for all gastric biopsy pathology specimens analyzed from the six facilities participating in the study.

The AI-based pathology tool uses a convolutional neural network optimized to analyze pathology images. The technology enables the tool to identify adenocarcinoma versus non-adenocarcinoma tissue in an image. Once the AI was trained, it was tested using 1,200 pathology whole slide images from six hospitals in Japan participating in the study.

The goal of this program, the company says, is to deliver AI pathology diagnosis software that can assist pathologists by 2023.