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A Predictive Model For Recurrence In Non-functional Pancreatic Neuroendocrine Tumors Based On Preoperative Evaluation Using Endoscopic Ultrasound-guided Biopsy

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Background : Non-functional pancreatic neuroendocrine tumor (NF-PNET) is a heterogeneous disease group presenting with a wide spectrum of behavior ranging from indolent to malignant. Optimal management is still up for debate with several guidelines. This study aims to predict the recurrence of NF-PNET based on preoperative work-up and guide adequate surgical management.

Methods : Patients with NF-PNET who underwent primary tumor resection between 2000 and 2020 were compiled. According to whether an endoscopic ultrasound (EUS)-guided biopsy was performed or not, the study population was divided into two groups. Clinical data, CT or MR imaging, and, if performed, an EUS-guided biopsy were the base of a preoperative assessment. We created a predictive model based on preoperative evaluation and postoperative outcomes including biopsy findings from the specimen and operation data. Then, we compared the c-index of the model to other models.

Results : Patients with NF-PNET who underwent primary tumor resection between 2000 and 2020 were compiled. According to whether an endoscopic ultrasound (EUS)-guided biopsy was performed or not, the study population was divided into two groups. Clinical data, CT or MR imaging, and, if performed, an EUS-guided biopsy were the base of a preoperative assessment. We created a predictive model based on preoperative evaluation and postoperative outcomes including biopsy findings from the specimen and operation data. Then, we compared the c-index of the model to other models.

Conclusions : The predictive model based on preoperative assessment using EUS-guided biopsy is a useful tool for predicting recurrence in NF-PNET, which could consider radical surgical extent in high-risk patients preoperatively.

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