

要約

Novel endoscopic ultrasonography classification for assured vertical resection margin ($\geq 500\mu\text{m}$) in colorectal endoscopic submucosal dissection

(大腸 ESD の深部断端 ($\geq 500\mu\text{m}$) 確保における新たな EUS 分類の提唱)

Yuki Kamigaichi, Shiro Oka, Fumiaki Tanino, Noriko Yamamoto, Hirosato Tamari, Yasutsugu Shimohara, Tomoyuki Nishimura, Katsuaki Inagaki, Yuki Okamoto, Hidenori Tanaka, Ken Yamashita, Koji Arihiro, Shinji Tanaka

Journal of Gastroenterology and Hepatology 2022; 37: 2289-2296

Background and Aim: The risk of local recurrence might be low in pT1 colorectal carcinoma with a tumor vertical margin (VM) $\geq 500\mu\text{m}$. We investigated the relationship between endoscopic ultrasonography (EUS) findings and VM in cases with colorectal endoscopic submucosal dissection (ESD) categorized as Type 2B according to the Japan NBI Expert Team (JNET) classification.

Methods: We analyzed 179 JNET Type 2B colorectal tumors resected by ESD at Hiroshima University Hospital from January 2010 to May 2021. The distance from the tumor invasive front to the muscle layer on EUS was defined as the tumor-free distance (EUS-TFD) and classified as Type I (EUS-TFD $\geq 1\text{ mm}$) and II ($< 1\text{ mm}$). We investigated the relationship between EUS-TFD and VM, and analyzed the predictive factors for VM $\geq 500\mu\text{m}$.

Results: EUS-TFD Type I was diagnosed in 133 (74.3%) lesions: VM $\geq 500\mu\text{m}$ (114, 85.7%); VM $< 500\mu\text{m}$ (19, 14.3%); and VM positive (VM1) (0, 0%). Type II was diagnosed in 46 (25.7%) lesions: VM $\geq 500\mu\text{m}$ (14, 30.5%); VM $< 500\mu\text{m}$ (22, 47.8%); and VM1 (10, 21.7%). In the EUS-TFD Type I cases, 84.5% and 87.8% were protruded and superficial types; whereas for Type II cases, these were 38.9% and 25%, respectively. EUS-TFD classification (Type I), scope operability (good), submucosal invasion depth ($< 2000\mu\text{m}$), histology at the deepest invasive portion (favorable), and degree of fibrosis (F0/F1) were significant predictors of VM $\geq 500\mu\text{m}$.

Conclusions: In JNET Type 2B lesions, EUS-TFD classification is a novel diagnostic indicator to predict VM $\geq 500\mu\text{m}$ in ESD preoperatively.