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Summary

OPTIMAL METHOD OF ENDOSCOPIC ULTRASOUND-GUIDED TISSUE ACQUISITION WITH MACROSCOPIC ON-SITE EVALUATION FOR COMPREHENSIVE GENOMIC PROFILING: A RETROSPECTIVE ANALYSIS

Hiroki Sakamoto

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Pancreas

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A retrospective study of 107 patients identified macroscopic visible core length greater than 50 mm as the only independent predictor of successful comprehensive genomic profiling with FoundationOne CDx from EUS-guided tissue acquisition samples.

KEY POINTS

- Among 107 consecutive cancer patients undergoing EUS-TA for CGP testing with FoundationOne CDx between June 2019 and January 2023, the overall success rate was 88 percent and complete success rate was 68 percent.
- Multivariable logistic regression analysis revealed that only macroscopic visible core length greater than 50 mm independently predicted complete F1CDx success, with an odds ratio of 7.7 and 95 percent confidence interval of 2.2 to 27.
- Combined embedding of all specimens from all passes into a single FFPE block yielded significantly longer median total macroscopic visible core length compared to separate embedding, 55 mm versus 22 mm.
- The study included predominantly pancreatic cancer patients (87 of 107), with biliary and other primary cancers accounting for 17 and 4 patients respectively, using 22-gauge needles in the majority of cases.

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