

The Role of Endoscopic Ultrasound-Guided Fine-Needle Aspiration of Pancreatic Lesions

Shigetaka Yoshinaga

Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan

Address for correspondence: Dr. Shigetaka Yoshinaga, Endoscopy Division, National Cancer Center Hospital, Tokyo, Japan.
E-mail: shiyoshi@ncc.go.jp

Since Vilmann *et al.*^[1] reported their results with endoscopic ultrasound-guided fine-needle aspiration (EUS-FNA), EUS-FNA has been spread as a good diagnostic tool for gastrointestinal and perigastrointestinal lesions such as gastrointestinal submucosal tumors, pancreatic lesions, abdominal and mediastinal lymphadenopathies, ascites, and adrenal lesions.^[2] EUS-FNA of pancreatic lesions is especially important because of its high diagnostic yield.^[3] However, to achieve good specimens, we should consider many issues such as the selection of needle size, necessity of stylet and suction, number of strokes and passes, presence of the on-site cytopathologist, and so on. Additionally, when we puncture pancreatic cystic lesions, we should consider not only pathological evaluation but also fluid analysis.^[4] Some of these issues are still controversial although there are many articles about them. Recently, EUS-guided, through-the-needle confocal laser-induced endomicroscopy and cystoscopy for pancreatic cystic neoplasms have been reported.^[5] In this way, EUS-FNA will be developed and its use will spread all the more. Jani *et al.*^[6] reviewed the present status of EUS-FNA of pancreatic lesions systematically. This review is one of good guides to EUS-FNA, and we can get a lot of information from their article.

References

1. Vilmann P, Jacobsen GK, Henriksen FW, Hancke S. Endoscopic ultrasonography with guided fine needle aspiration biopsy in pancreatic disease. *Gastrointest Endosc* 1992;38:172-3.
2. Yamao K, Sawaki A, Mizuno N, Shimizu Y, Yatabe Y, Koshikawa T. Endoscopic ultrasound-guided fine-needle aspiration biopsy (EUS-FNAB): Past, present, and future. *J Gastroenterol* 2005;40:1013-23.
3. Yoshinaga S, Suzuki H, Oda I, Saito Y. Role of endoscopic ultrasound-guided fine needle aspiration (EUS-FNA) for diagnosis of solid pancreatic masses. *Dig Endosc* 2011;23(Suppl 1):29-33.
4. Brugge WR, Lewandrowski K, Lee-Lewandrowski E, Centeno BA, Szydlow T, Regan S, *et al.* Diagnosis of pancreatic cystic neoplasms: A report of the cooperative pancreatic cyst study. *Gastroenterology* 2004;126:1330-6.
5. Nakai Y, Iwashita T, Park do H, Samarasekera JB, Lee JG, Chang KJ. Diagnosis of pancreatic cysts: EUS-guided, through-the-needle confocal laser-induced endomicroscopy and cystoscopy trial: DETECT study. *Gastrointest Endosc* 2015;81:1204-14.
6. Jani BS, Rzhouq F, Saligram S, Lim D, Rastogi A, Bonino J, *et al.* Endoscopic Ultrasound-Guided Fine-Needle Aspiration of Pancreatic Lesions: A Systematic Review of Technical and Procedural Variables. *North Am J Med Sci* 2016;8:1-11.

This is an open access article distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as the author is credited and the new creations are licensed under the identical terms.

For reprints contact: reprints@medknow.com

How to cite this article: Yoshinaga S. The role of endoscopic ultrasound-guided fine-needle aspiration of pancreatic lesions. *North Am J Med Sci* 2016;8:12.

Access this article online

Quick Response Code:



Website:

www.najms.org

DOI:

10.4103/1947-2714.175186