

## **Study protocol**

# **A Multicenter Randomized Trial, Comparing a 25G EUS Fine Needle Aspiration (FNA) Device with a 20G EUS ProCore Fine Needle Biopsy (FNB) Device**

**ASPRO** trial (**ASP**iration versus **PRO**core)

**ProCore** study group

## PROTOCOL TITLE

<b>Protocol ID</b>	ASPRO trial
<b>Short title</b>	Comparing a 25G EUS-FNA with a 20G EUS ProCore FNB Device
<b>Version</b>	Version I
<b>Date</b>	13-10-2014
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<b>Laboratory sites</b>	Department of Clinical Pathology, Erasmus University Medical Center, Rotterdam, the Netherlands
<b>Pharmacy</b>	Not applicable

## SUMMARY

**Rationale:** During Endoscopic Ultrasound (EUS), tissue samples can be obtained with different techniques. Fine needle aspiration (FNA) provides a cytological specimen. With fine needle biopsy (FNB), a histological specimen is obtained, which generally results in a better diagnostic performance. However, FNB needles are stiffer and more difficult to handle, and can therefore result in less tissue acquisition.

**Objectives:** To compare the performance and diagnostic accuracy of two EUS-guided tissue acquisition devices; a 25G Echotip Ultra Fine Needle Aspiration (FNA) device and a new, more flexible 20G Echotip ProCore Fine Needle Biopsy (FNB) device.

**Study design:** International randomized multicenter trial.

**Study population:** Patients  $\geq 18$  years old, referred for EUS-guided tissue sampling of a: (I) pancreatic mass lesion, (II) lymph node, or (III) other submucosal or undefined mass (non-pancreatic),  $\geq 1$  cm in size.

**Intervention:** EUS-guided tissue acquisition by means of either the 25G Echotip Ultra FNA device, or the 20G Echotip ProCore FNB device.

**Main study parameters/endpoints:** The main endpoint is the diagnostic performance, measured against the *gold standard* diagnosis (based on the surgical resection specimen or in non-operated patients, the outcome of the diagnostic work-up (i.e. tissue sampling and imaging studies), confirmed by a compatible clinical disease course). Secondary endpoints include I. technical success, II, specimen specifics, such as; quality, presence of tissue cores, and pathological classification (cytology, cell-block, or histology), III. procedural aspects, such as; safety, the yield of a single needle pass, and the value of on-site pathological evaluation, and IV. inter-observer variation.

**Nature and extent of the burden and risks associated with participation, benefit and group relatedness:** There are no additional risks involved. Patients are referred for EUS-guided tissue acquisition, as part of the standard diagnostic work-up. Previous reports showed EUS-guided FNA and FNB sampling to be equally safe.