Retroperitoneal Biopsy Using eTRAX™ Needle Tip Tracking

BACKGROUND

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Case:
Retroperitoneal Biopsy

Featured Product:
eTRAX Needle Tip Tracking System

CONSIDERATION FOR USE

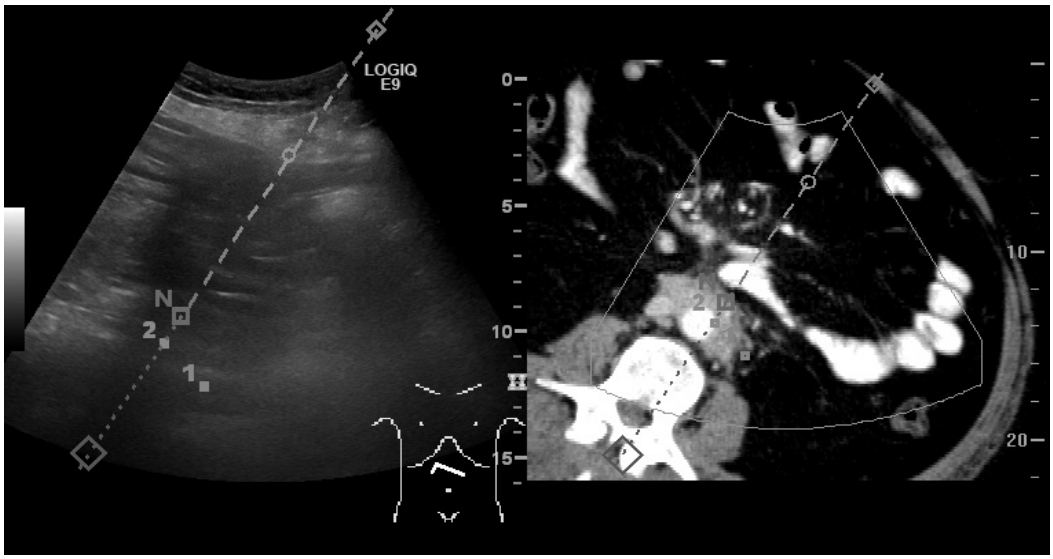
Using Volume Navigation on the LOGIQ E9, image fusion of 2D ultrasound and CT made it possible to visualize a difficult target. Using eTRAX Needle Tip Tracking was beneficial to obtain proper access to the obscurred target and continuously visualize the needle tip as it was advanced.

REQUIRED EQUIPMENT FOR EXAMINATION

- GE Healthcare LOGIQ E9 with Volume Navigation
- CIVCO eTRAX Needle Tip Tracking System

APPROACH TO EXAMINATION

Electromagnetic sensor technology and graphical software guidelines representing the real-time trajectory of the needle path allowed for continuous needle tip visualization throughout this challenging procedure. In this patient, the ultrasonic window was difficult and the target area of interest was nearly obscurred. Additionally, the location was in a critical region near the aorta. The eTRAX Needle Tip Tracking system provided an anatomical roadmap and when combined with the CT dataset, allowed access to the previously unaccessable target.



Aided by the on-screen guidelines of eTRAX Needle Tip Tracking, continuous visualization of the needle tip was obtained despite a difficult ultrasonic window.