Ultrasound Demo Guide

Smart FLC

【Technology Principle】

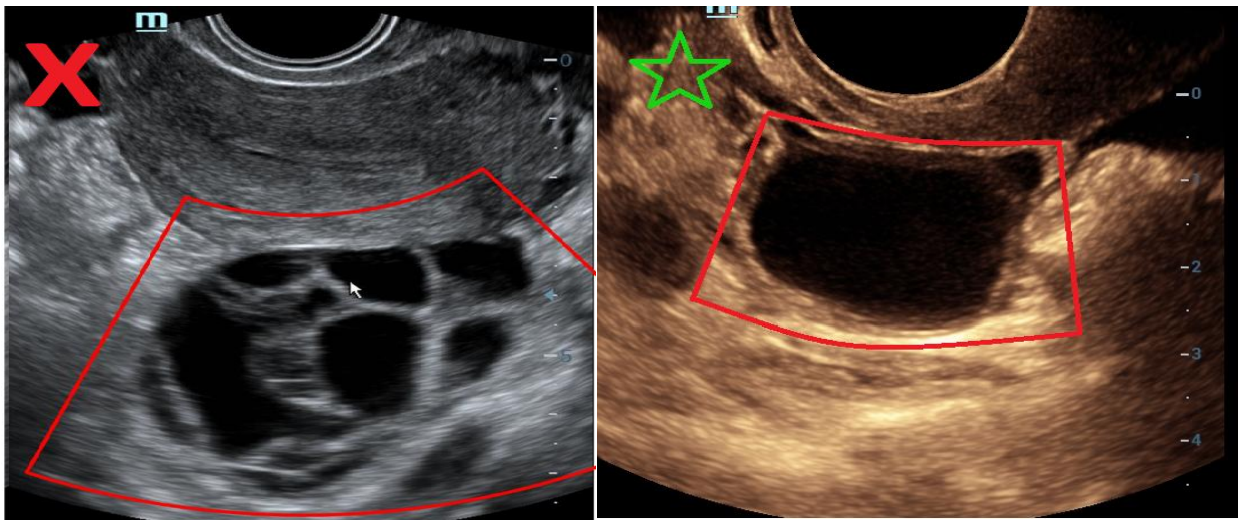
Fully automatic detection of ovarian follicles from a single volume rendering powered by artificial intelligence that continues to learn with use, and complete with a color coded report table organized by follicle size, largest to smallest.

【Benefits】

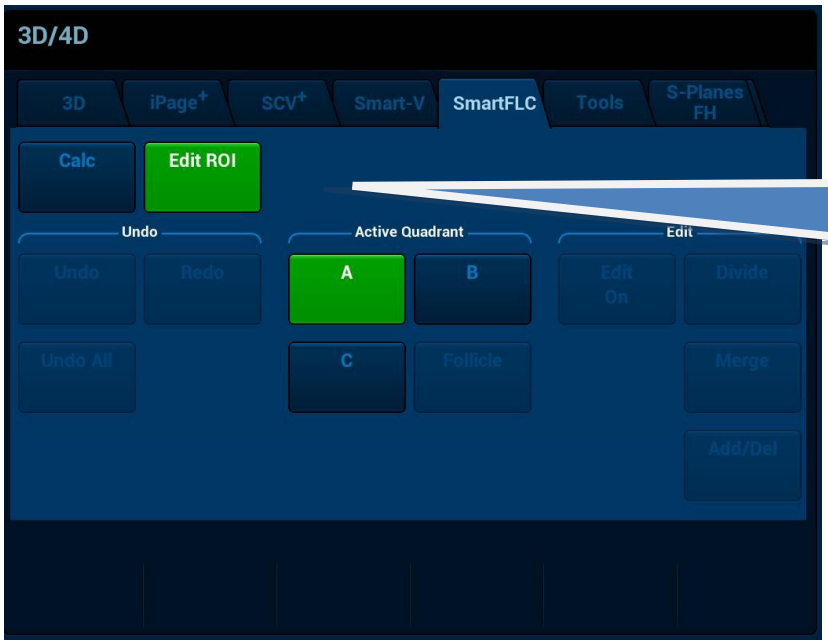
Minimize scanning time and ensure accurate detection of all follicles present, some of which may not be detected solely by 2D imaging. Allows the user to add/delete and edit the rendering for impeccable accuracy.

【Operation Steps】

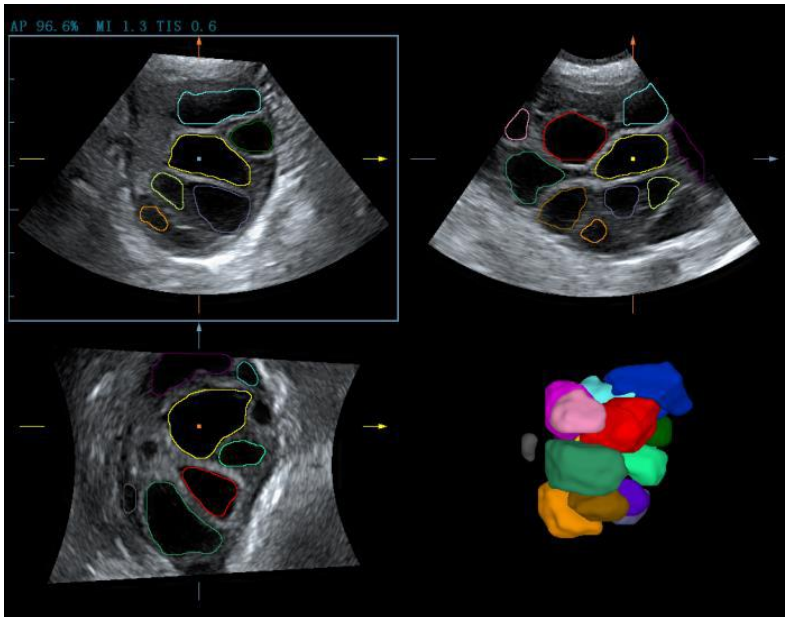
1) Acquire a volume rendering of an ovary, ensuring the ROI box is an appropriate size. ROI box should surround the ovary tightly and must not exclude any part of the ovary or extend to the uterus or other surrounding structures i.e. vessels, if avoidable.



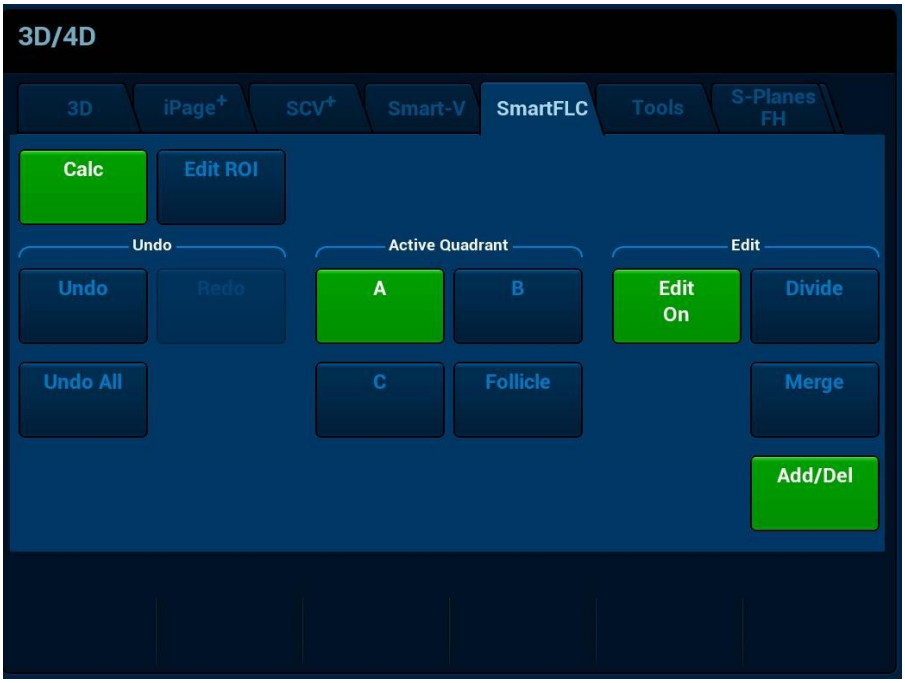
2) Once data is acquired, you are able to **Edit ROI** to achieve optimal planes for follicle recognition.

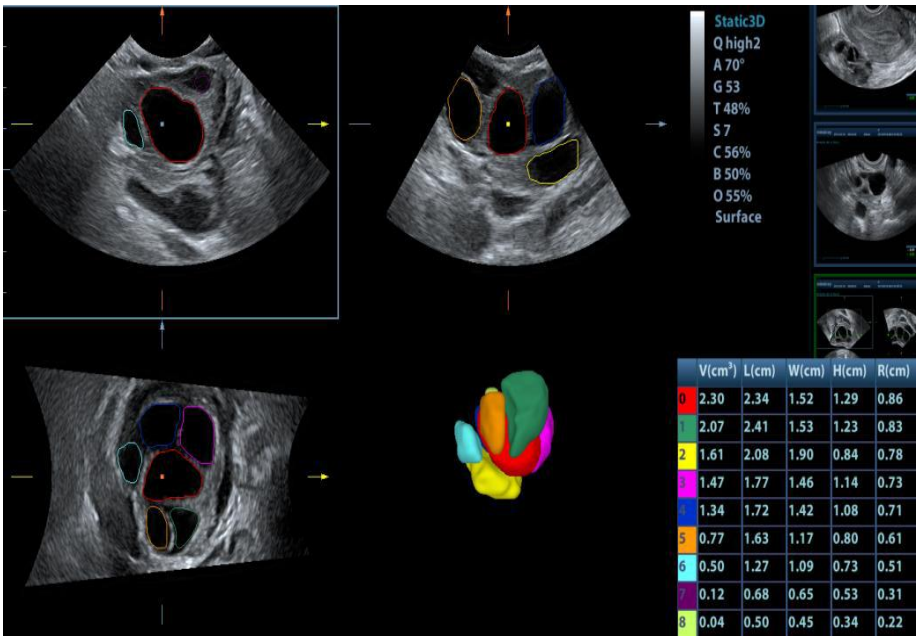


3) Using the Set button and the Trackball, adjust the ROI box to the desired area.

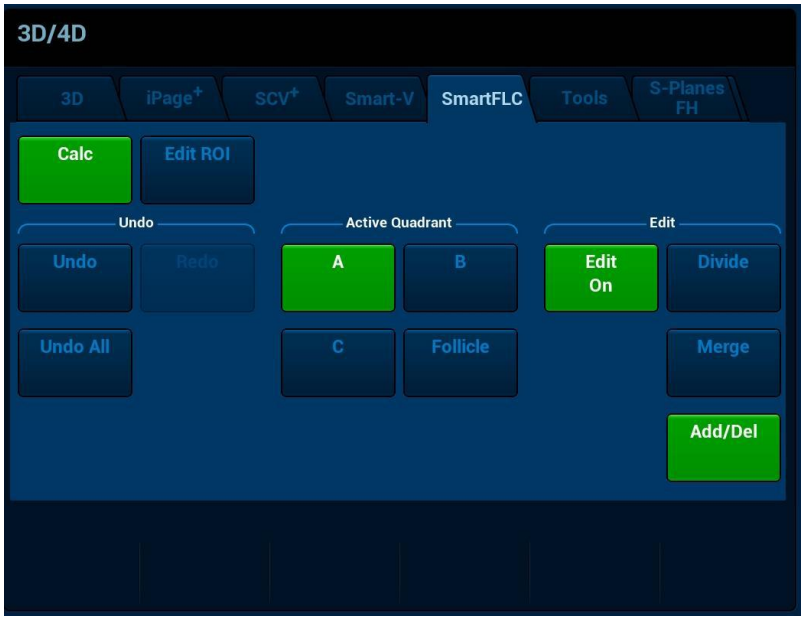


3) Once optimal planes are achieved, activate the **Calc** button to begin follicle recognition, the recognized follicles will appear in traced in the MPR. The X, Y, Z planes can be manipulated to evaluate all follicles detected.

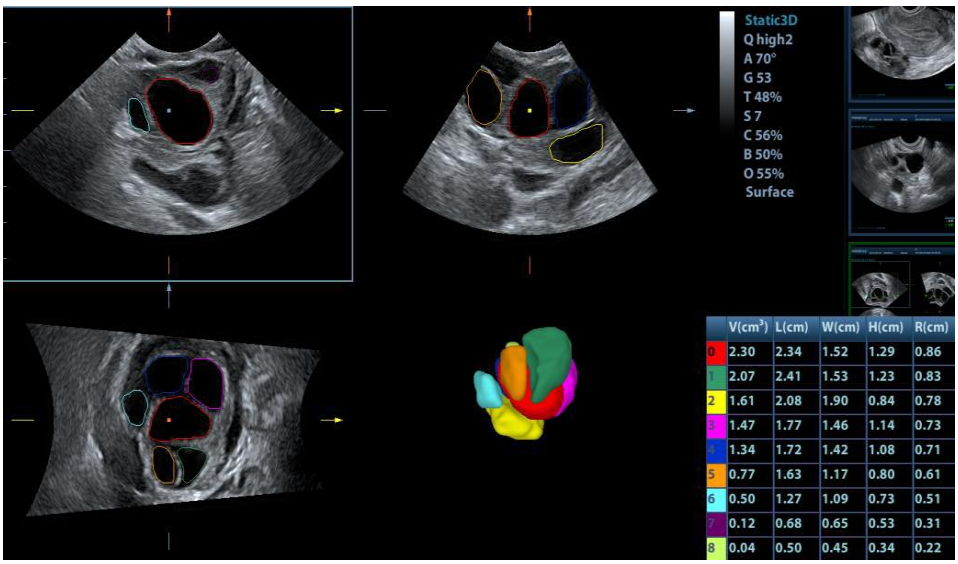




4) Use the **Add/Del** button to add or delete follicles that have or have not been detected. **TIP**: You cannot edit the shape of the detected follicle. The **Divide** and **Merge** are additional tools for editing.

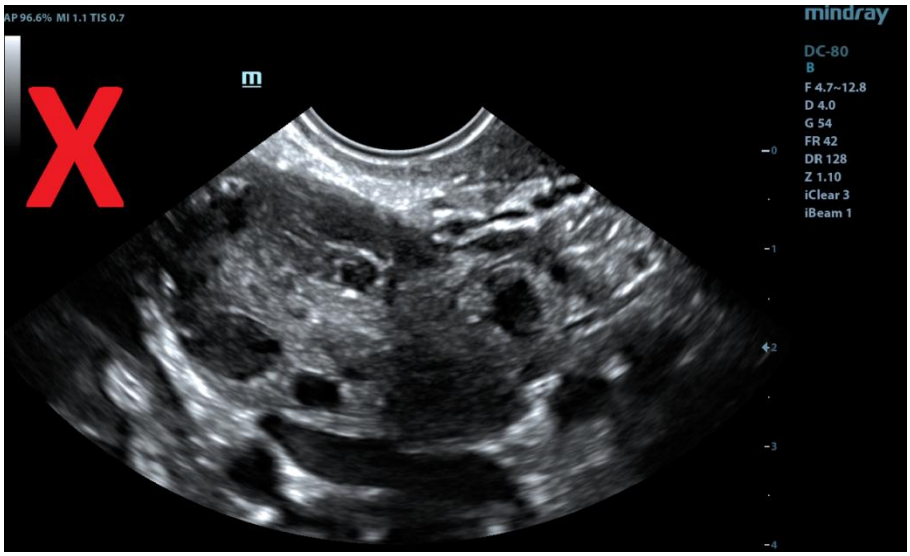


4) Measurement data will automatically be sorted by size and color into a table for simplified reporting.



【Operation Tips】

1) The accuracy of follicle recognition will be compromised if the follicles are not completely anechoic. Do not demo on a patient with history of egg retrieval or ovarian tumor.



2) Use the bimanual maneuver to displace overlying bowel gas or move the ovary into the transducer's field of view to improve recognition.

3) Patient bladder should be emptied prior to exam to avoid artifact and pushing of the ovary out of the field of view.