

CLINICAL APPLICATIONS TRAINING SERIES

SIGNOS AS A BLADDER SCANNER

The Signos technique for the calculation of bladder volume is extremely simple. Novice users can adopt the technique in a less than half an hour and the volume calculation typically takes less than a minute to perform.

Procedure Outline

1. Incorporate a bladder scan as part of a routine health check if there are clinical indications of urinary retention.
2. Attach the 3.5 MHz transducer to the ultrasound probe and launch the Bladder Volume scan sequence via the main menu. Entering this sequence will give the user a step by step guide to performing the volume calculation.
3. Step 1- Perform a Transverse scan of the urinary bladder and measure the maximum transverse dimension. Advance to the next sequence step.
4. Step 2- Rotate the ultrasound probe through 90° in a clockwise direction and perform a sagittal scan of the urinary bladder. Measure the maximum AP (anterior to posterior) and superior to inferior dimensions of the bladder. Advance to the next sequence step.
5. At the completion of the 2 step sequence, Signos will produce a report page indicating a calculated bladder volume. The calculation employs the ellipsoid correction factor and provides an estimate of volume.

View a video clip demonstrating this clinical application www.signosticsmedical.com

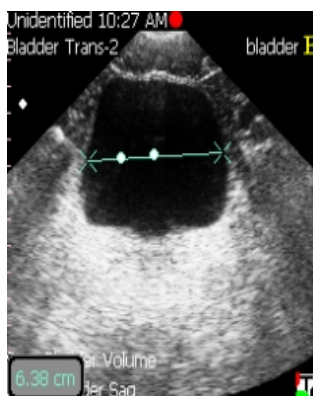


Figure A – Normal Transverse image of the Bladder (one caliper applied)

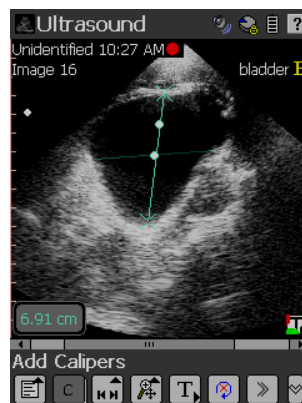


Figure B – Sagittal image of the bladder (2 calipers applied)

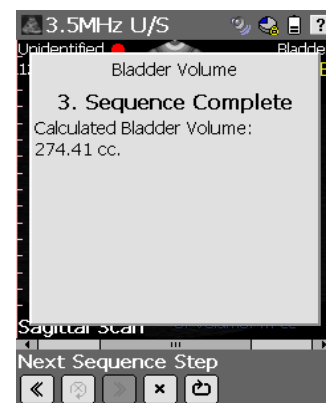


Figure C – Calculated Bladder Volume

DISCLAIMER

This information is intended for educational purposes and to provide instruction in the operation of your Signostics ultrasound device. The techniques and procedures described should only be performed by a qualified clinician. The applicability of these techniques and procedures should be independently verified. Use of the information contained within this document is at your own risk.