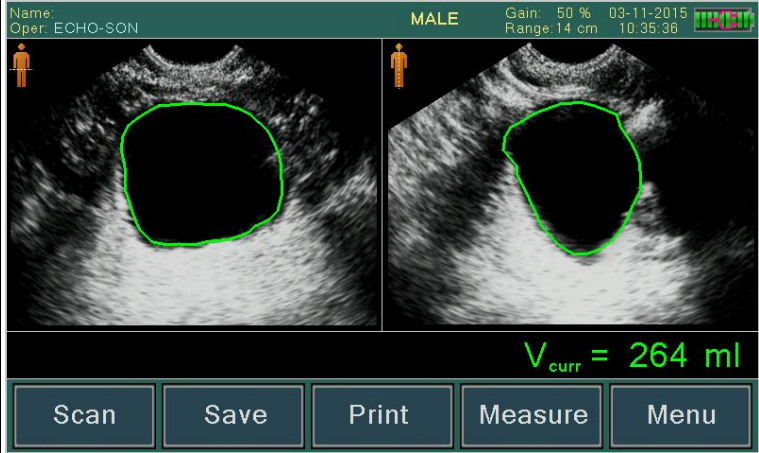
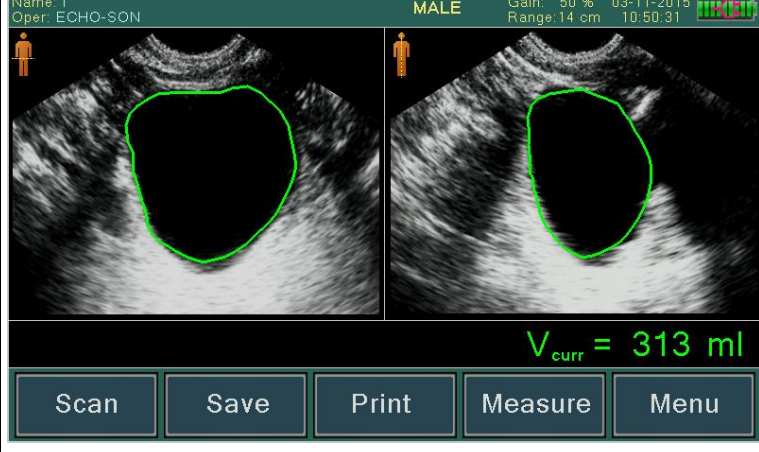


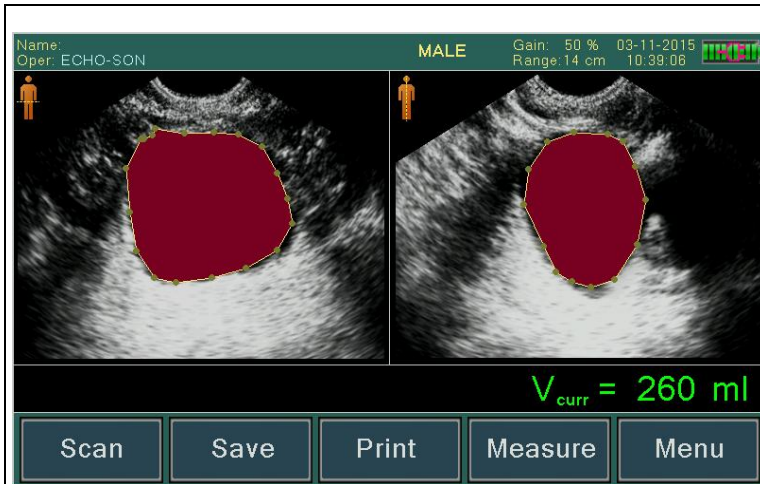
PINIT BV- volumetric ultrasound scanner – tool4vol

Recent, modern devices for bladder volume measurement use different methods for determining biometric data and calculation of the final results. There are a lot of biological and physical factors that affect final results, and for that reason all methods (even multi-plane 3D etc) are laden an error near-by 20-25%.

Echo-Son would like to introduce the volumetric tool for bladder content measurement – PINIT – which offers in fact four methods (algorithms) /**tool4vol**/ as a very universal and common solution. Our PINIT empowers volume measurement of a bladder and additionally another organs as kidneys, papilloma, testes, prostate gland etc. and their dimensions as well.

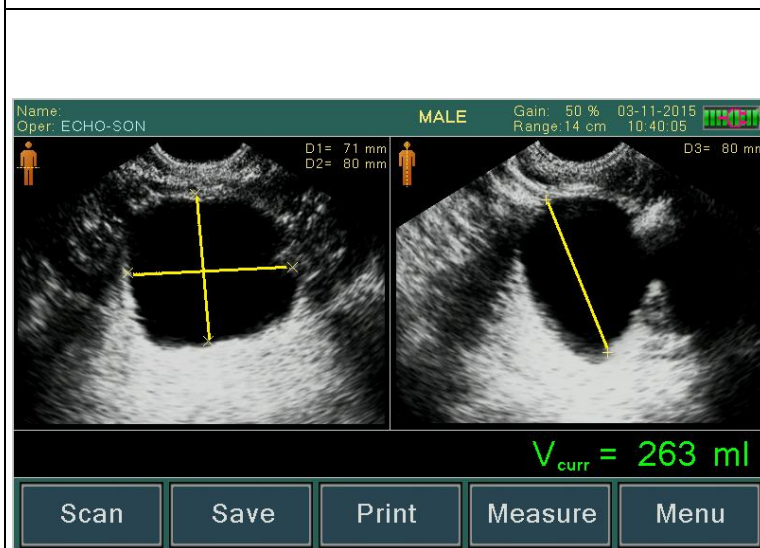
There are the unique features of our **tool4vol** PINIT:

	<p>1. Basic method – automatic</p> <p>Single- click and after 2 seconds the result is displayed. Calculation via known empiric formula based on research by <i>Rageth and Langer</i>. Volume is calculated using areas of 2 perpendicular plane of bladder marked in green on the scanned images.</p>
	<p>If obtaining the corrected areas is difficult by automatic procedures, PINIT offers two semi-automatic planimetric methods:</p> <p>2. Contour (trace)</p> <p>Contouring area (outline) by free-hand drawing - and then calculating the bladder volume.</p>



3. MultiPoint

Contouring area (polygon) by free-hand point setting – and then calculating the bladder volume



4. 3-Axis (HWL)

For verifying and checking above automatic and semiautomatic measurements PINIT offers traditional, well known method used in all ultrasound scanners for more than 35 years. It is **3-axis** (elliptical kind) method known as well as **HWL** (High_Width_Lenght). This method could be used for other organs like kidney, prostate etc.



The advantage of the PINIT is the mode of operation as the **2D** ultrasound scanner (256 grey scale) for purpose for diagnostic exams of abdominal, pelvic floor, urinary duct, prostate etc with typical measurements (distance, volume) of organs or morphological lesions.