



## **TRUS and Biopsy Instructions (DP-6900 Scanner)**

1. Connect the Rectal probe to any probe port. ( scanner power OFF )
2. Turn ON scanner.
3. DP6900 scanner boots up in Urology mode.
5. Open needle guide kit and put sterile gel on probe tip.  
Roll on probe cover. Put needle guide over top of probe cover
4. Input patient data by pressing INFO key at top left of keyboard.  
Select URO and input PSA value if PSAD calculation is required.

### **A. Prostate Vol. measurement: Length x Height x Width x 0.523 = Vcc**

1. Scan in the sagittal mode. If the patient is in the left lateral position, the sagittal scan plane is the one parallel to the patient bed and this plane can also be used for biopsy. In the sagittal mode, find the mid-sagittal scan of the prostate from bladder neck to prostate Apex. Freeze the image, press MEASURE button and measure from bladder neck to apex which is the "Length" of the prostate. Press "SET" after each measurement.
2. Also on this frozen mid-sagittal image, measure the height which is at the widest part of the prostate, at the base and at 90 degrees perpendicular to the previous length measurement ( anterior – posterior or height of gland ) With a forward looking transducer it is important to do these 2 measurements in the sagittal mode.
3. Now unfreeze the image, rotate the probe 90 degrees and scan in the transverse ( coronal ) mode, freeze the image, press measure key again and measure the widest cross section of prostate on screen. ( 'width' of gland )The software calculates prostate volume by the following formula:  $Vcc = LxHxW x 0.523$
4. PSAD info will appear in Report page if PSA value was input in patient data screen at the beginning.
5. If video printer is connected, press "Print" button to obtain a hardcopy.
6. Press SAVE button to save images in DP6900 internal memory or F1 button to save direct to a memory stick in the USB port. (jpeg format )

### **B. Biopsy**

1. F5 key is on/off key for display of needle guide line.
2. Use 18G 20cm length needles for biopsy .
3. At conclusion of procedure Press END EXAM key to clear out previous patient data or turn machine off.
4. Remember to TURN OFF or FREEZE the scanner before removing or connecting the probe.
5. Probe may be cleaned in soapy water and soaked in Cidex OPA ( J&J) or sent for Sterrad sterilisation (J&J Sterrad 100s OK, Sterrad model NX unsuitable )

See [www.sydmed.com](http://www.sydmed.com) "Library" for more info on disinfection/sterilisation .