

**CLINICAL APPLICATIONS TRAINING SERIES**

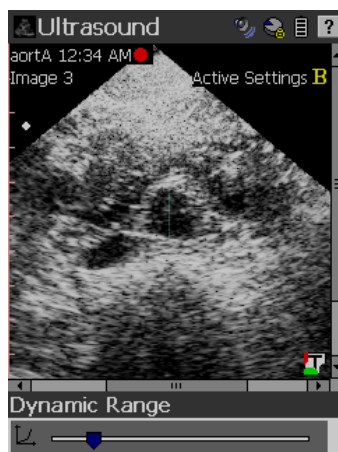
**SIGNOS SURVEILLANCE OF ABDOMINAL AORTIC ANEURYSMS**

Signos provides primary care physicians with a simple tool for the routine screening of patients at risk of Abdominal Aortic Aneurysms (AAA's). Nearly 50% of these silent killers are undiagnosed at the time of rupture so routine screening of those at risk can be life-saving.

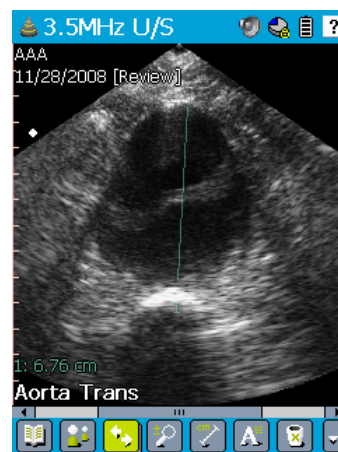
**Procedure Outline**

1. Incorporate the AAA surveillance as part of a routine health check if the patient has AAA risk factors. Arrange for the patient to present FASTED, this will reduce the amount of bowel gas in the abdomen. If too much bowel gas is present it can obscure visualization of the aorta.
2. Attach the 3.5 MHz transducer to the ultrasound probe and launch the AAA scan sequence via the main menu. Entering this sequence will give the user a step by step guide as to the best surveillance technique.
3. Perform the 4 sequenced scans on the aorta as the described in the sequence and measure the maximum AP (anterior to posterior) diameter of the vessel on each image. Transverse scans are taken at the level of the umbilicus (U+0), 4cm superior to the umbilicus (U+4) and 8cm superior to the umbilicus (U+8) such that there is adequate assessment of the infrarenal aorta where the vast majority of aneurysms occur
4. At the completion of the sequence, Signos will produce a report page indicating the maximum measured diameter of the vessel. An aneurysm is considered present if the diameter of the vessel is greater than 3.0cm. Aneurysms larger than 5.0cm are considered surgically urgent. Consider referring the patient for a formal scan if you measure a diameter of greater than 2.5cm.

View a video clip demonstrating this clinical application [www.signosticsmedical.com](http://www.signosticsmedical.com)



**Figure A** – Normal Transverse image of the Aorta and IVC



**Figure B** – Transverse image of a surgically urgent Abdominal Aortic Aneurysm.

**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.