

Porterbrook Clinic

Sheffield Care Trust

**Andrology Service
(Urology)**

Sheffield Teaching Hospitals

Investigations

The NEVA System

Information for Users of our service

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Introduction

Porterbrook clinic is able to offer a number of investigations to try and help both you and us understand the cause of your problems. Two of these tests involve you wearing a device which is attached by either straps or adhesive patches to the penis. The exact nature and choice of the investigation will be discussed with you by your clinician. The Gold standard test, the Rigiscan, has been in use for many years and the clinic has a decade of experience in using and interpreting the results of the Rigiscan. The Rigiscan measures radial rigidity and helps us to assess how hard and firm an erection can become. The NEVA on the other hand measures changes of volume of blood into the penis during states of arousal and provides us with information on the capacity for inflow to the penis. Ultrasound can help identify and quantify the blood flow velocities into the penis (MIDUS). A fourth test, the DIR, measures rigidity of the tip of penis. A fifth test measures nerve conduction associated with sensations (GSA). All of the information collected by the clinic for patients with any investigations are held in a coded format.

The NEVA

The NEVA system measures the number of times you have erections while you sleep, when the erections occur and for how long they last. The device also provides other useful information about changes in blood flow rate within your penis. Your doctor will use this information to help determine the cause of your erectile problems.

The NEVA system consists of a recorder, a set of three electrodes, and a leg band with pouch to hold the recorder. Depending on your doctor's instructions, you will wear the device for up to three nights when you go to bed and whilst you are asleep. The device would not usually be used if you are not circumcised.

After testing is complete, you must return the device to your doctor's office with the NEVA recorder very promptly on the same morning of completion of the tests. Your doctor will review the data that the device had recorded, and together you will begin to make decisions about your treatment options.

Please do read this in conjunction with the information leaflet on penile

injections and your letter of appointment which give specific details of what you need to take into account before attending for a NEVA investigation.

Important notes

Do bring with you any reading, TV glasses and medication you may require. Would you please avoid sexual activity for 24 hours prior to the investigations and take no drug treatment for erection difficulties for three days. Also, do not drink, smoke (or use nicotine patches or gum) within two hours of the tests. Otherwise, do eat and drink as normal and take any normal medication.

