Information Sheet

Surgery Pod

Telehealth Solutions

What it does

The Surgery Pod enables patients, without clinical supervision, to perform their own tests which post directly and instantaneously into their patient record. Typically installed in GP waiting rooms, this touch-screen Pod allows patient assessment prior to consultation. It uses a tried and tested graphical user interface which has been specially designed to withstand regular use, reporting on a range of key variables, including:

Weight, Body Mass Index (BMI), Oxygen saturation, Pulse, Blood pressure, Clinical questionnaires, including, amongst others, QRisk2©, PHQ9, asthma, epilepsy & contraceptive checks

Peripherals are added to the Pod to enable vital signs to be measured – standard peripherals are simple sphygmomanometer and scales – many customers though prefer an arm-in blood pressure device for increased ease of use for patients.

The clinician can send patients to the Surgery Pod to perform specific tests, or in the case of new patients, to carry out a New Patient Check. Furthermore, patients can be sent to perform tests prior to obtaining repeat prescriptions. Data can be collected without the need for a clinical appointment at the patient's convenience.

Benefits to the Doctor

The Surgery Pod is designed to save time, reduce recording errors and increase the number of tests performed. The patient conducts their own preliminary checks in advance of their appointment with the doctor. All fields are Read-coded, so the information is transmitted automatically to the patient management system ready for the patient's consultation.

The Surgery Pod will enable the GP to spend more high value time in the consultation with the patient, using the information that will already be available to them. It delivers results with a high level of accuracy, significantly improving their productivity and efficiency.

What is more, the Surgery Pod can also be used to capture the changing personal details of the patients, such as address or telephone number, which also frees up the reception staff, allowing them to deal with more pressing queries and reducing queue times.

The information gathered from the Surgery Pod check-up also assists in the maintenance of Quality and Outcomes Framework (QOF) points for the surgery, and furthermore each machine can be uniquely configured to help with specific QOF requirements to optimise practice performance by providing the information required by their PCT.

This flexible system can be configured in line with individual surgery software requirements. The Surgery Pod is connected to the existing surgery computer system using an Ethernet connection, and is able to post data directly and securely into individual patient records, so there is no need to re-enter information. Data is collected prior to the consultation, can be instantly displayed on the GP's screen and is appropriately coded to ease

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compatibility and interoperability with existing systems.

The modular software structure enables surgeries to update individual aspects of the Surgery Pod without having to make changes to the core package. This allows further services and devices to be added as they become available.

Benefits to the Patient

The Surgery Pod improves service to patients, allowing them to spend more high-value time with their doctor, as more time can be devoted to analysing their problems as opposed to recording routine vital signs. Another main patient benefit is that they no longer need to make appointments or turn up at inconvenient times for simple checks – these can now be done at their convenience.

Aside from the standard medical tests, the Surgery Pod also offers a range of Quality of Life questionnaires to assist in the diagnosis of anxiety and depression, and also offers smoking and drinking assessments .

Patients are uniquely identified upon accessing the Pod to enable total security on the system. The machine is programmed so that no information is misplaced, even if a session is interrupted.

The Surgery Pod has been designed to be as user-friendly as possible, helping to reduce white coat syndrome in blood pressure measurements. Furthermore, it is available in a range of different languages.

"General practice is changing with longer consultations, more complex problems and increasing expectations. This means that health prevention and routine checks are more difficult to squeeze in. Telehealth Solutions offers an ideal solution by notonly automating data collection, but allowing the patient to participate directly."

Dr Michael Ingram, GP at The Red House Surgery

Detailed Specification
Surgery Pod

Touchscreen
Terminal: ELO 1529L with table or wall mounting
Dimensions: width 13.97" (355 mm) x height 11.27" (286 mm) x depth 10.95" (278 mm)
Weight: 17.2 lb (7.8 kg)
Power: 100-240 VAC, 50-60 Hz, 85W (max)

Accuracy
The peripherals used (see below) have identical accuracy to that commonly used by clinicians in their consulting rooms – for example the UA-767 sphygmomanometer achieved the British Hypertension
Society grading of “A/A” (a tolerance of less than 5mm of Hg on both systolic and diastolic measures). See http://www.aandd-eu.net/clinicalvalid-p1.html. All our equipment has ‘CE’ certificates.
Accuracy for this equipment is typically guaranteed for three years, although in regular use a standard annual calibration check is recommended. THSL can arrange for that check, though PCTs usually have such a service to hand.

Devices:
Standard
Scales (to 200kg): A&D UC321 or combined automatic height-measuring device and scales.
Sphygmomanometer (blood pressure/pulse): A&D UA767PC or Arm-in sphygmomanometer A&D TM-2655P (on the right of the picture on the right, at extra charge). Disposable sleeves are available to avoid any risk of infection, if required.

Additional (requiring professional supervision)
Glucometer: One Touch Ultraeasy
Pulse oximeter: Contec CMS-50E
Spirometer GE EasyOne Spirometry System B100071
ECG: GE Cardiosoft 12 Lead Interpretive ECG System N100266
Blood analyser: Cholestech LDX System (delivers a complete lipid profile and glucose, ALT, AST and hs-CRP in 5-6 minutes depending on test)
Urine Analyser: Uryxxon Relax Automated Urine Analyser
An HBA1c and µalbumin analyser, INR, a full blood gas and a creatinine analyser are also available.

Usage
Screen response time: typically < 0.1 sec
Languages available: 20 off the shelf, any other common language within a few days
Current connections available to: EMIC LV & PCS, Vision, Adastra, GPASS – others coming shortly
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Checks available
New patient
Body Mass Index
Alcohol usage
Smoking
Blood pressure
Blood chemistry
Depression – both PHQ9 and HADS
Asthma
Epilepsy
Lower Urinary Tract Symptoms
NHS Health Check (including QRISK2 health risk visualisation)
THSL will be happy to add further checks considered to be generally of value.