



SMARTMED™
HomeCare

www.SmartMedBD.com

With a rapid increase of chronic conditions such as diabetes, obesity, heart disease and respiratory illnesses, healthcare providers in Bangladesh are under increasing pressure to deliver quality yet affordable care. The SmartMed™ HomeCare Telehealth service utilises the latest technologies to meet this significant challenge head on.

TELEHEALTH FOR EVERYONE

Telehealth, enabled by mobile technologies, is revolutionising and enhancing the way healthcare is delivered to patients across the globe. SmartMed™ HomeCare is a new, innovative telehealth solution that enables patients to self manage their long-term and chronic conditions, or post-operative recovery, from the comfort of their own home.

SmartMed empowers patients to engage in the management of their own illness by increasing self confidence and peace of mind. It enables the healthcare provider to remotely monitor the patient's vital signs and general well being and reducing the need for in/out-patient attendance and home call visits.





SmartMed™ is a suite of telehealth tools, applications and solutions to enhance healthcare for everyone, anywhere. SmartMed by utilises the latest mobile and medical technologies available in the UK, Europe and the Middle East.

We provide complete end-to-end solutions to healthcare providers, including the NHS in the UK and large private hospital groups in the Middle East. Our solutions include email and SMS appointment reminders as well as patient SMS surveys, in addition to the range of telehealth home monitoring and community health services.

Our Android based Patient Records System (coming soon) enables health workers to manage the patient experience from end to end.

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MOBILE & TELEHEALTH

Telehealth allows patients with long-term, chronic conditions to manage their illness from the less stressful and more familiar surroundings of their own home.

It enables patients to monitor vital signs, symptoms and their general wellbeing, from any location, allowing them to return to work or travel on family holidays. It enables patients to live a more normal life whilst ensuring that their condition is expertly monitored by experts.

INTRODUCING SMARTMED™

SmartMed™ utilises the latest Android mobile technology, together with an optional range of Bluetooth connected medical devices*, relevant to their condition. This is all managed by an easy-to-use Android smartphone/tablet app.

*Patients not taking the Bluetooth option, can manually enter health readings into the app using their existing medical devices.

On a regular basis, the patient then captures their own vital signs and answer tailored questionnaires on their symptoms and general well being on a regular basis. This data is then uploaded to the SmartMed Clinical Portal where qualified clinicians monitor the patient's condition and take early, preventative intervention or issue advice to the patient or their doctor.

SMARTMED IMPROVES HEALTH AND ENHANCES PATIENT LIVES

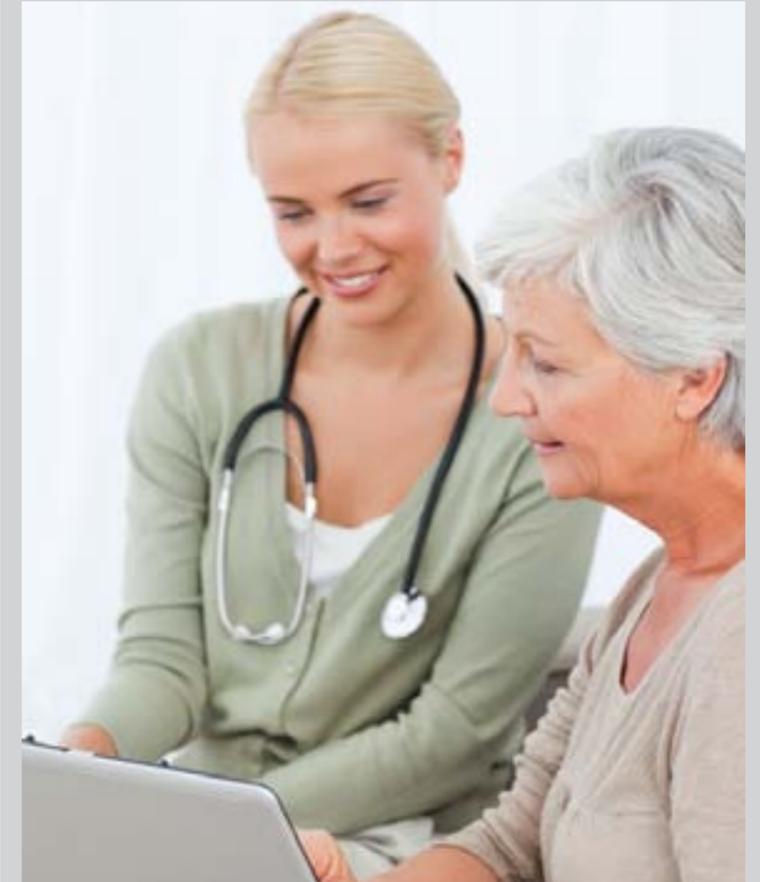
Patients that use telehealth solutions such as SmartMed are empowered to manage their own long-term condition, taking a more proactive role in using medication, diet and exercise.

SmartMed can help:

- Prevent illnesses recurring or escalating by enabling early intervention and enhancing the patient's understanding of their condition.
- Provide peace of mind by continuous, expert monitoring of their vital signs and well being.
- Reduce stress and concern by allowing the patients, including post-operative patients, to manage their illness from the comfort of their own home.
- Allow the patient to live as normal a life as possible, without being tied to appointments at hospital, surgery or clinic.
- Allow the elderly and vulnerable in society to remain living in their own homes rather than a nursing home or hospital.
- Improve medication compliance as reminders can be easily issued to the mobile phone and nonconformance is quickly identified.
- Give relatives peace of mind knowing the patient is being monitored by experts.

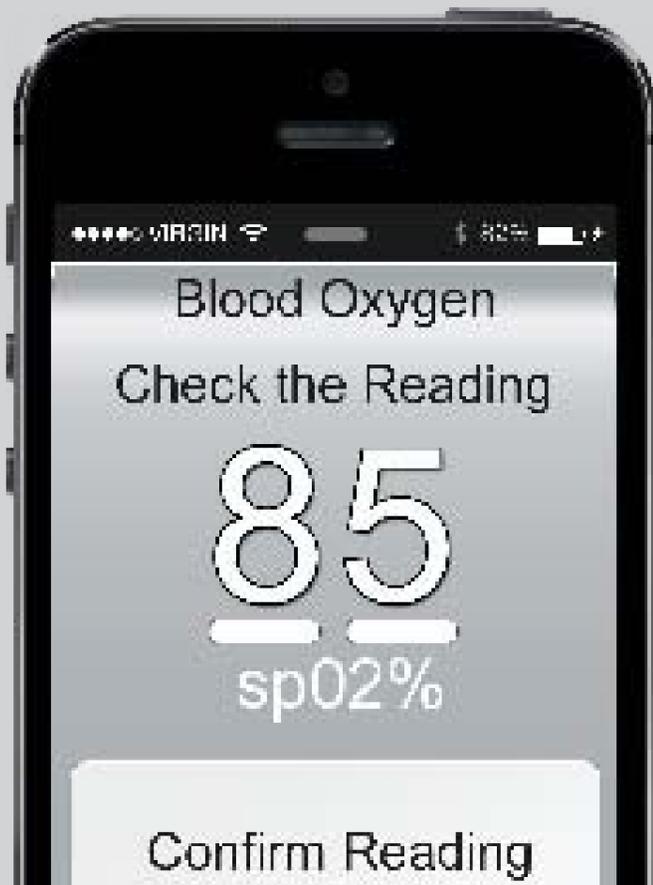
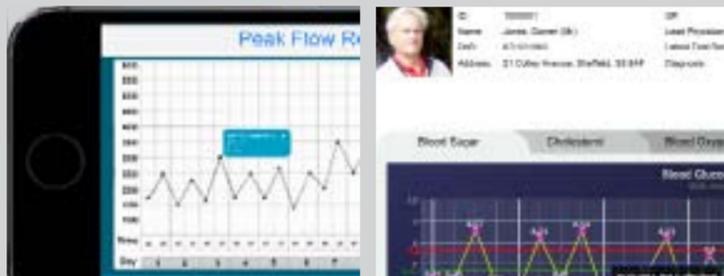
BENEFITS FOR THE HEALTHCARE PROVIDER

- **Reduce the costs of Healthcare Provision**
SmartMed HomeCare enables the remote monitoring of large numbers of patients wherever they are located, across the whole country.
- **Target & Prioritise the Need for Personal Care**
Remote monitoring means that face to face, personal care and home visits can be carefully targeted. This helps reduce travel time and means doctor and nurse time can be better utilised, without impacting the level of care.
- **Reduce Waiting Lists**
Reduced admissions, shorter periods of in-patient care, quicker post operative discharge and a need for fewer, less frequent out-patient attendances are just some of the potential benefits that a well implemented telehealth solution can bring.
- **Enable Evidence Based, Timely Interventions**
Accurate vital signs and patient well being information is available at all times, enabling rapid evidence based decision making and risk stratification, facilitating timely intervention.
- **Preventative Healthcare & Trend Analysis**
By gathering large volumes of regular patient health assessment data, it is possible for providers to identify indicators of future health issues, assisting in the planning and improvement of health care provision.
- **Stay Connected with Patients**
Mobile communications enables the Healthcare Provider regularly communicate with the patient, for re-assurance, interventions or reminding them to take tests, medication or attend appointments.
- **Ensure Medication & Treatment Conformance**
Nonconformance is evident from the monitored results. Reminders can be issued to the patient's phone.
- **Carer's Quality of Life Can Be Improved**
The patient's family and carer can also monitor a subset of the patient's health assessment data, so they can live their own lives. The carer also knows that the clinicians are also remotely monitoring the patient's condition. There is also potential for fewer trips to the GP and hospital (coming soon).



65% outpatient appointments relate to long term conditions*

*DH Report - Improving Health & Wellbeing of People with Long-Term Conditions



OUTPATIENT VISITS REDUCED, INPATIENT PROCEDURES AVOIDED

THE SMARTMED™ APP

Our specially designed app runs on low cost Android devices - both Smartphones and Tablets.

The app enables the patient to manage a range of conditions including Respiratory (e.g. COPD, Asthma & Hypertension etc.), Diabetes and Heart & Coronary disease (e.g. CAD, high cholesterol, high blood pressure etc.). It also enables post-operative patients to be discharged sooner by allowing them to monitor their own recovery at home.

The SmartMed app running on the patient's phone, automatically connects to a range of medical devices using Bluetooth® wireless technologies. This allows the patient to quickly and easily capture vital signs, such as blood sugar levels, cholesterol, blood pressure, peak flow, blood oxygen, pulse rate, respiratory rate, weight and body temperature. Manual entry of readings is also available where patients don't use Bluetooth devices - making it affordable to everyone.

Patients are gently reminded when a test is to be undertaken, by gentle, audible notifications on the smartphone. Alerts can also be issued when a clinic appointment is due, or when medication needs to be taken. The simple user interface, then guides the patient through the process of capturing the vital signs and beaming them back to the health care provider via an existing WiFi or 3G Internet connection.

Patients can also answer individually tailored questionnaires, gathering valuable information regarding their general well-being and any symptoms they may be experiencing. This could include how well they are sleeping, the amount of exercise they're getting, urine colouration, level of pain around affected areas, photos of surgical wounds and skin rashes and so on.

The app also includes tools for gathering other information such as Respiratory Rate, Height, BMI and for capturing images of affected areas or surgical wounds.

This information is beamed back to the SmartMed Clinic using the patient's existing wifi or 3G service. Here it is analysed by qualified clinicians so that trends can be established and interventions made.

HEALTH MONITORING

SmartMed HomeCare is the first of several propositions we will be offering in Bangladesh. Solutions for Community Health Workers, Hospitals and Pharmacies are coming soon. All of these can use the SmartMed tele-health centre to monitor results as they are received.

Our telehealth centre is located in Dhaka and manned by qualified, experienced clinicians. These clinicians respond to alerts triggered by the patients responses and configured according to a set of personalised thresholds.

Should our clinician be concerned about a particular reading, or trend, they will contact either the patient or yourself (the patients own medic) to discuss or recommend a course of action. This could be more frequent monitoring, preventative exercise or referral to your surgery for further investigations.

This approach ensures your patient can be assured that their health is being looked after by qualified experts, without placing further pressure on your surgery and resources. You're able to focus on the patients who are most in need of treatment.

A COMPLETE SOLUTION

We don't just "dabble" in telehealth and we don't focus on one particular aspect. Our mission is to provide a complete, end-to-end healthcare solution utilising the very latest in mobile technologies.

Our SmartMed™ service provides a range of optional medical devices to enable the patient to undertake tests in their own home using their smartphone or tablet device as the recording hub. Devices are connected to the phone using the latest wireless technologies such as Bluetooth®, and data is transmitted seamlessly back to the healthcare provider via the SmartMed™ web portal.

SmartMed™ allows diagnostic tests across a range of conditions, including heart & coronary, respiratory and diabetes. Tests include Blood Sugar Levels, Cholesterol, Respiratory Rate, Peak Flow, Blood Pressure, Pain Levels and ECG.

Our innovations have been tried and tested in the UK and other Western countries and our vision is to bring the same, leading-edge technologies to the patients of Bangladesh.

REMEMBER THE BENEFITS

Reduced costs of providing healthcare

Empower the patient to reduce anxiety & stress

Enhanced quality of care

Anytime, anywhere, everyone

OUT-PATIENT ATTENDANCE REDUCED BY

30%*

*Clinic attendance reductions recorded during UK pilot..



MISSED
APPOINTMENTS
DOWN 30%*

THE MEDICAL DEVICES

SmartMed™ comes with a range of optional medical devices, many of which can be wirelessly connected to the SmartMed app using the latest Bluetooth technology.

The current portfolio of devices and tests that can be performed includes:

- **Pulse Oximeter** - we use finger-type oximeters from leading manufacturers such as Nonin to capture blood oxygen levels (spO₂) and pulse rate (BPM).
- **BP Meter** - this is an arm-cuff type BP meter that connects wirelessly to the smartphone hub.
- **Glucose Meter** - for patients with diabetes
- **Peak Flow Meter** - the SmartMed Peak Flow Meter is supplied by leading German manufacturer Vitalograph and measures the maximum speed of a patient's expiration (airflow through the bronchi) to establish the degree of obstruction in the airways.
- **Thermometer** - our in-ear digital thermometer can be used to wirelessly capture the patient's temperature.
- **Weigh Scales** - by capturing the patients weight on a regular basis and comparing this to results obtained with other devices, clinicians can build up a picture of how the patient is progressing. Rapid weight loss, for example, is often a sign that a patient's condition is deteriorating. Weight can also be used to automatically calculate the patient's BMI.
- **Cholesterol Meter** - for managing cholesterol levels in the blood.

We are constantly researching and developing new medical devices including those that could be used in optometry, urine & sputum analysis and many more. We are also currently lab testing a number of ECG devices.

Should your patient not wish to buy the Bluetooth devices, they can use existing medical devices and enter the data into the app manually. The results are still monitored by our telehealth clinic so the high level of service isn't degraded at all.

*Appointment reduction experienced by NHS as result of SMS based Appointment Reminder service

SMARTMED BANGLADESH

SmartMed will initially be available to a limited number of carefully selected health care practitioners in Bangladesh. As you will be fully aware, Bangladesh has its own particular challenges with regards the provision of healthcare, including the large, ever growing population, a steady increase in chronic illness and the affordability and travel inconvenience for patients needing to visit hospitals.

SmartMed has been developed in consultation with experienced, respected doctors in Bangladesh to ensure it meets the specific needs of the country.

Our aim is to allow successful health care professionals like yourself to deliver enhanced services at the forefront of innovation. This will enable you to deliver a quality service to your patients, enhancing their health and wellbeing and growing your valuable reputation in the Bangladesh, and global, health industry.

Together, you and SmartMed can provide Bangladesh and its people with the level of healthcare it deserves, commensurate with the innovations being offered in the USA, Europe and the Middle East.

YOU CAN TRUST US TO DELIVER

SmartMed was developed by Appdragon who have served multi-national customers for over 12 years.

Our highly satisfied customers include the NHS, BT, Royal Mail and RBS as well as several Government departments in the UK.

Our services are used worldwide, including in the UK, the Netherlands, Germany, the USA, France, Ireland, Singapore, Bangladesh and Switzerland.

To read more about us and our extensive Mobile and Telehealth solutions, including a video about our UK solution, please visit our web-site at:

www.SmartMedBD.com

Alternatively, you can email us at:
info@mhealthcaresolutions.co.uk

Or to speak to someone about your requirements, call our Dhaka office on **01673 835815**.

VITAL SIGNS & WELL BEING DATA CAPTURED

- Blood Oxygen
- Pulse Rate
- Blood Glucose Level
- Blood Pressure
- Cholesterol
- Peak Flow Rate
- Weight, Height, BMI
- Food Intake / Fasting
- Exercise Undertaken
- Respiratory Rate
- Pain Levels
- Typical Wellbeing Indicators & Symptoms

HEALTHCARE IMPROVED FOR ALL



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Another quality mobile solution from



Better healthcare for everyone, everywhere, anytime.

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