

solutions sheet



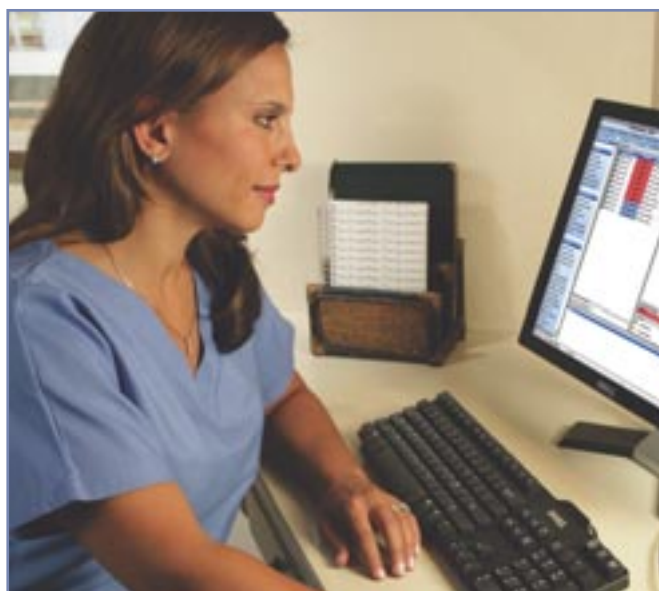
Tunstall Genesis DM™ and LifeStream™ telehealth solution



The Genesis DM™ is the latest generation of the world's best-selling telehealth monitor with over 50,000 in service worldwide. The Genesis DM™ monitor incorporates many enhanced features including a new patient interface with easy-to-read screen, larger buttons and gender specific voice options and a new GPRS function which allows connection when a wired telephone line is not available. It has also been designed to seamlessly integrate with the new web based LifeStream™ monitoring system.

The system has been designed primarily to help people living with long term health conditions such as COPD and CHF. The Genesis DM™ provides a simple and cost effective means of remotely monitoring a patient's vital signs including heart rate, blood pressure, peak flow, oxygen saturation, ECG, temperature, prothrombin time and weight, whilst also providing disease-related questions and self care advice to gather a more complete picture of an individual's health.

To aid ease of use the monitor provides users with a simple automated set up procedure, and a friendly voice guides patients through tailored questions and the process of taking their own vital signs making the monitor extremely easy to use, for both the clinician and the patient.



All the reassurance you need

Tunstall

Telehealth is the consistent, reliable and accurate remote monitoring of a patient's vital signs through the use of simple, easy to use equipment that professionals can customise for each patient, enabling day to day individual care according to need.

How does it work?

The Genesis DM™ monitor records patients' vital signs in the comfort of their own home, allowing clinicians to effectively manage their patients remotely on a regular basis according to need.

The Genesis DM™ monitor can be programmed to automatically prompt patients and perform vital signs measurements at prescribed times to fit in with the patient's daily routine. In addition to this, the monitor can be used any number of times as required, using the retest (data transmitted to the Lifestream platform) and the manual function (Data used in patient's self management programme only).

The vital signs that can be monitored on the Genesis DM™ monitor include:

- Heart Rate
- Weight
- Peak flow, fev 1
- Blood Pressure
- Oxygen Saturation
- ECG
- Temperature
- Prothrombin Time
- Blood Glucose

There is also a database of audio prompted disease specific questions that a clinician can choose from. They can select up to 10 questions per session from a large bank of predefined questions.

After receiving initial training from qualified staff, patients are automatically guided through a monitoring session with the Genesis DM™ which records their vital sign data and responses to disease specific questions. In addition, self care advice can be given if the patients are having difficulty. This information is then communicated via a freephone telephone line to the LifeStream™ platform. Qualified staff can then manage their patients based on the results for that day. Using the LifeStream™ platform, patients can be triaged, and where results fall outside individually set parameters, the clinicians can take appropriate action.

It is important to note that the monitor is NOT an emergency medical response system as it is designed to aid the capturing of longitudinal health data prompting planned proactive care rather than 24 hour real-time alerts.

This monitoring solution is very successfully used in conjunction with 24 hour telecare solutions. Patients need to understand that if they are experiencing a medical emergency they must follow normal emergency procedures.



A range of medical devices can be linked to the Genesis DM™ to provide additional levels of health monitoring.

Key features of the Genesis DM™

Advanced usability

The newly designed Genesis DM™ is easier to use than ever before. An automatic **set-up wizard** allows users to easily adjust monitor settings, including new voice gender options, while the enhanced user interface offers simple set up and monitoring in only a few minutes.

Multiple communication options

Genesis DM™ is **web-enabled** for automatic downloads of patient-specific disease management content, updates, and prompts. **Wireless GPRS communication** provides enhanced connectivity and faster content download (optional). This is extremely useful where the patient does not have a landline or one is not available.

Real time monitoring

Where the user has both a landline and a mobile phone, the wireless technology allows them to speak to their clinician whilst taking their measurements, providing support in case of any problems.

Security for peace of mind

The Genesis DM™ provides unparalleled security in protecting private health information via **industry-proven encryption** so that no patient-identifiable information is transmitted, or remains on the device. The factory default reset function allows the lightweight monitor to be quickly and easily transferred between users.

Multi user facility

The Genesis DM™ monitor has the capability to be used by multiple users. A swipe card system allows individually prescribed sessions on a multi-user site. This has been particularly useful in nursing homes, sheltered housing settings and 'on ward' step up and step down programmes.

Event reminders

Reminders help patients keep track of medical appointments and other important events. Standard languages include English (male/female), French, Spanish, Italian, German, Portuguese, French Canadian, Russian, Polish, Armenian, Welsh and Hindi.

Most comprehensive peripheral support

The Genesis DM™ supports the following peripherals:

- Digital scale (weights up to 500 lbs/227 kg)
- Non-invasive finger sensor and oximeter cable for oxygen saturation
- Glucose meter
- Peak flow meter with FEV1 and PT/INR
- SpO2 algorithm provides more accurate SpO2 data
- Custom-designed blood pressure cuff easily positioned with one hand
- Multiple glucose meters including the Lifescan OneTouch® Ultra® 2 glucose meter*

Angled display with vivid graphics

features large, easy-to-read graphics to aid patient compliance

Large, tactile buttons

are easy to feel, easy to see, easy to use

Manual button

allows on-demand vital signs measurement



Disease-specific symptom management

prompted by patient responses to specific queries

Compact design

portable, lightweight (0.9 kg.)

Partial retest function

for specific vital sign measurement

* OneTouch and Ultra are registered trademarks of LifeScan, Inc.

With the LifeStream™ platform, remote care flows smoothly

The LifeStream™, along with the services and support to connect it, delivers a total solution for remote patient care. A single-source for interoperable personal health tools, it allows providers, patients and family to achieve better outcomes.

The open standards based software platform powers the innovative telehealth system. It leverages advanced web tools which allows you to securely access patient health data from anywhere, enabling effective patient management. LifeStream™ offers:

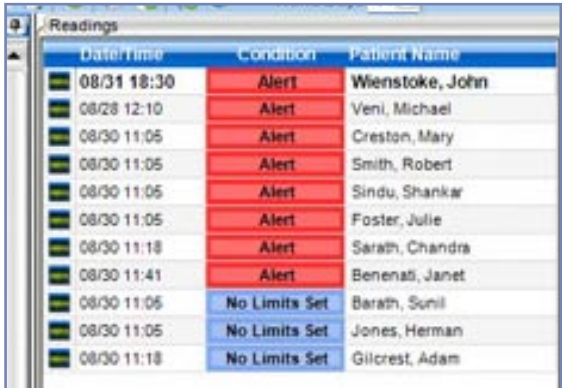
Clear alert triage screens

LifeStream™ offers enhanced alert triage capabilities, providing decision support to clinicians based on limits set for each patient.

Simple and easy to use interface

Enhance productivity with convenient dashboards that make the user interface easy to customise. LifeStream™ lets you identify problems sooner, allowing for quicker intervention.

- Single-click access to your most frequently used workflow items
- New toolbar icons enhance workflow
- Easy-to-use "Spell check" and "Find" functions
- Customisable dictionaries by diagnosis, healthcare provider, and medication



Date/Time	Condition	Patient Name
08/31 18:30	Alert	Wienstoke, John
08/28 12:10	Alert	Veni, Michael
08/30 11:05	Alert	Creston, Mary
08/30 11:05	Alert	Smith, Robert
08/30 11:05	Alert	Sindu, Shankar
08/30 11:05	Alert	Foster, Julie
08/30 11:18	Alert	Sarath, Chandra
08/30 11:41	Alert	Benenati, Janet
08/30 11:05	No Limits Set	Barath, Sunil
08/30 11:05	No Limits Set	Jones, Herman
08/30 11:18	No Limits Set	Gilcrest, Adam

Clear screen layout helps quickly triage patients.

Flexible access to data

Through the downloadable LifeStream™ clinical viewer, you can determine where and when to access patient information.



- **Web-extreme technology** allows secure access to clinical applications anywhere there's an Internet connection
- **Clinical viewer** to easily access patient data
- **VitalsManager patient viewer** enables patients and family members to conveniently track health status



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LifeStream's™ patient information screen.

Security and seamless integration

Improved workflow through seamless integration

LifeStream™ is able to import and export clinical data from other software applications using the HL7 interface standard to ensure data is readily available within a single platform for viewing by clinical staff wherever they need it.

- HL7 interface engine for easy communication among platforms for increased workflow efficiency
- One location to admit all patients
- Reduction in errors caused by duplicate entry
- Complete and accurate healthcare records are easier to maintain

Secure information anytime, anywhere

LifeStream™ provides a disaster recovery system and the support of other web-focused security tools to help guarantee the security and continued access to patients' personal health data.

- Encryption provides data safety
- Security monitoring to identify attempted intrusion
- Additional security of two physical locations for data storage



Key benefits of Telehealth:

- Fewer unplanned admissions
- Fewer outpatient visits
- Less transport costs
- Less inconvenience to patients

It can be concluded that:

- Many more patients can be supported
- Improved self care for the patient in their home
- Supports evidence-based decision making
- Reduced need for outpatient clinic review

Equipment part numbers

Item	Part Number	Item	Part Number
Telehealth Monitors		Peak Flow Meter Cable	42200/15
Genesis DM™ with Blood Pressure, weighing scales and SPO2*	42200/87	Peak Flow Meter Cradle	42200/17
Genesis DM™ with Blood Pressure and weighing scales*	42200/75	Power Supply	42200/35
Monitoring Platforms		Prottime Microcoagulation System	42200/59
LifeStream™	42200/76	PT/INR cable	42200/09
Communication		Pulse Oximeter Ear Probe	42200/22
GPRS Unit for Genesis DM™*	42200/96	Pulse Oximeter Finger Probe	42200/23
Peripherals		Standard - Finger Probe Oximeter	42200/25
Blood Pressure Cuff I (16-22cm)	42200/01	Pulse Oximeter Extender	42200/24
Blood Pressure Cuff II (21-29cm)	42200/02	Spirometer Cable	42200/36
Blood Pressure Cuff III (28-37cm)	42200/03	Temporal Thermometer	42200/18
Blood Pressure Cuff IV (36-46cm)	42200/04	Weighing Scales	42200/19
Blood Pressure Tubing - Genesis	42200/05	Weighing Scales Carrying Case	42200/07
ECG @ Home Monitor (inc cable)	42200/11	Calibration of Genesis Monitor	CALIBGEN
ECG @ Home Cable	42200/10	Card Swipe Reader	42200/12
Glucose Meter Cable - Bayer	42200/08	Card Swipe Writer	42200/13
Glucose Meter Cable - Lifescan	42200/33	Patient ID Card*	42200/14
Glucose Meter Cable - Roche	42200/38		
Installation Accessory Pack	42200/32		
k2 ECG Electrode Solution	42200/60		
Peak Flow Meter	42200/16		

* A communication fee is charged per monitor (per ID card for multiple client monitors) per month

For more information please call 01977 660479

Tunstall

www.tunstallgroup.com

Tunstall is a founder member of the Continua Health Alliance

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