

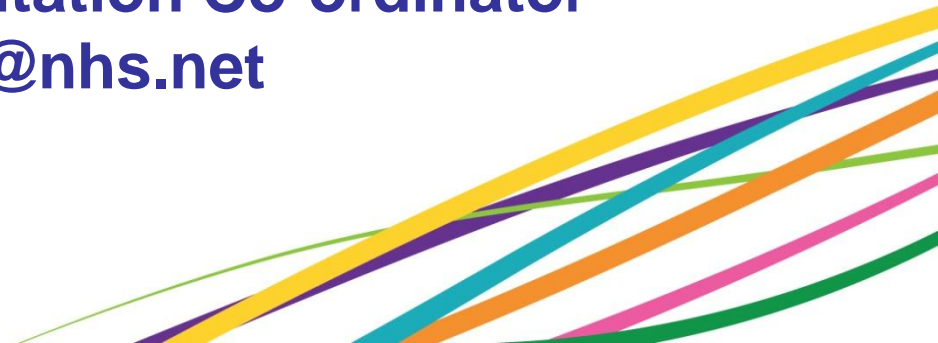
Telehealth

The Time is Now!


Gail Glew

Telehealth Implementation Co-ordinator

gail.glew@nhs.net



Background

- Meeting financial and demographic challenge
 - Long-term condition management
 - DH- Promoting patient self care
 - 3 Million Lives (DH Concordat, 2011) –using technology to transform services
 - Trust purchased 300 Tunstall kit in 2011
 - Pilot Implementation programme
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Other Tele-technologies

- **Telemedicine** – Video conferencing between clinicians and patients e.g. dermatology
- **Telecare** – Activity Monitoring & emergency support –range of alarms and sensors in the home- SS



What is Telehealth?

Telehealth – Remote information collection using a home based device

A tool for proactive case management to empower patients to live independently & promote self care


Support clinicians to identify changes in patients conditions – earlier interventions and improved outcomes



Not an Emergency response service



Telehealth-How does it work?

- **Information collection of patients vital signs-**
BP, heart rate, oxygen sats, weight and temperature etc
 - Patient is asked a series of pre-determined questions about their symptoms- COPD, HF etc.
 - Clinicians set individual patient parameters
 - Alerts are triggered when patients go out of set parameters
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Telehealth- how does it work?



Peripherals connect to home unit via Bluetooth, infrared, wired



Data is sent from home unit via free phone telephone number

Patient is prompted to use Telehealth equipment at scheduled times

N3 Environment



Users can access software via icon on desktop



Clinician performs proactive prioritised case management based upon identified patient need





Main Menu

Monitoring Dashboard

- Find Patients
- Manage Treatment Teams
- New Patient
- Profile Settings

Patient Menu

Warner, Mason (M)

Known As: Mas
 000 000 0035
 dob: Mar 12 1946 (65)
 ph: 077 8468 3950
 PP: Allsworth, Dr
 ph: 02920878656

- Care Record
- Patient Info
- Status
- Monitoring Plan
- Devices
- Summary Report

All Treatment Teams

Need Review: 31

Missed: 1

High: 3

Moderate

Acknowledge Selected Stable Patient(s) Acknowledge ALL Stable Patients

Severity	Patient	NHS Number	Vitals	Questions	Status	Last Received	Expected
High	Warner, Mason	000 000 0035	13	Low	Needs Review (5)	Sep 19 2010 17:05	May 20 2011 10:00
High	Hargreaves, Oscar	000 000 0052	6	Low	Needs Review (3)	Sep 19 2010 15:03	Sep 19 2010 16:00
High	Wood, Tilly	000 000 0051	None	High (1)	Needs Review (2)	Sep 17 2010 12:34	Sep 18 2010 10:00
Missed	Peters, Adam	000 000 0045	None	Low	Needs Review (2)	Sep 17 2010 11:38	Sep 18 2010 10:00

50 Page 1 of 1 Displaying 1 to 31 of 31 Patients

Needs Review Jun 29 2011 09:17 Manually entered by: Worden, Michael

Vitals: Jun 29 2011 09:17 Pulse: 101 bpm SBP: 139 mmHg Wt: 100.00 kg DBP: 89 mmHg SpO2: 90 %

Needs Review Jun 21 2011 16:12 between 45 and 100 OR 20 bpm over 2 days

Vitals: Jun 21 2011 16:12 Pulse: 110 bpm SBP: 167 mmHg Wt: 101.00 kg DBP: 110 mmHg SpO2: 89 %

Needs Review Jun 18 2011 16:12 Manually entered by: Worden, Michael

Vitals: Jun 18 2011 16:12 Pulse: 94 bpm SBP: 160 mmHg

Needs Review Sep 19 2010 16:34

Vitals: Sep 19 2010 16:30 Pulse: 60 bpm SBP: 110 mmHg

Severity Legend

- High High risk answers or vitals alerts
- Moderate Medium risk answers, no vitals alerts
- Missed Readings not submitted when expected
- Lost Contact No response from patient's equipment
- Incomplete Readings submitted with missing data
- Low Low risk answers, no vitals alerts

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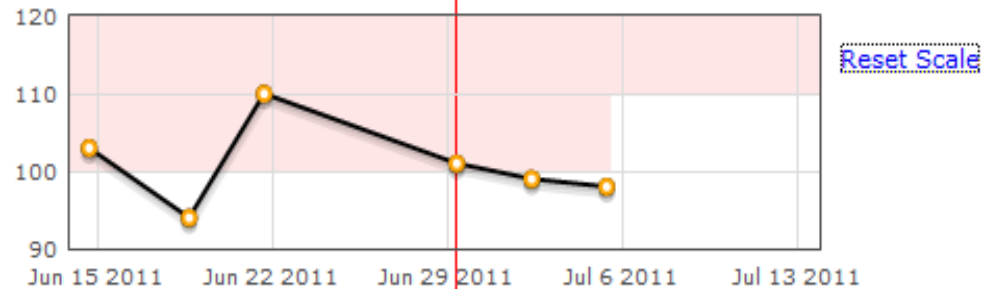
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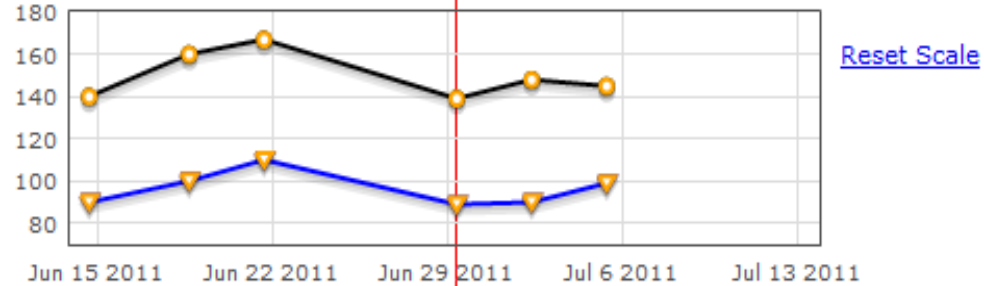
Care Record

- Patient Info
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- Devices

Heart Rate (bpm)



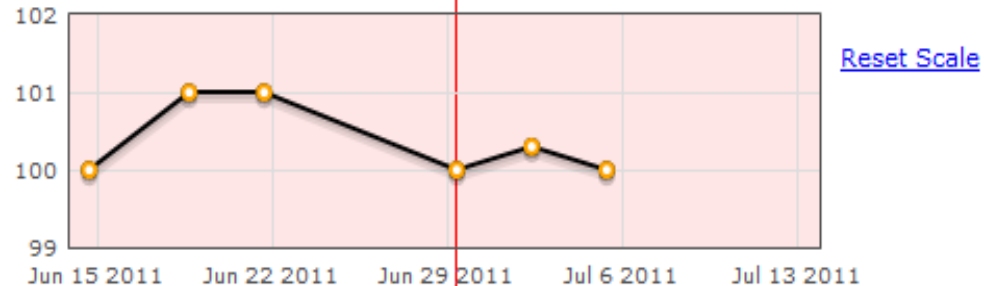
Systolic Blood Pressure (mmHg)



Diastolic Blood Pressure (mmHg)

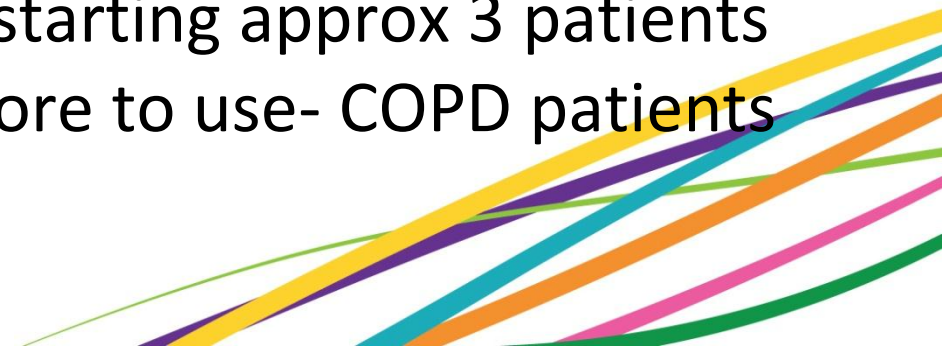


Weight (kg)




- Missed Readings not submitted when expected
- Lost Contact No response from patient's equipment
- Incomplete Readings submitted with missing data
- Low Low risk answers, no vitals alerts

Findings so far

- **In Portsmouth area- Heart Failure, Respiratory (CRIS) and community teams**
 - HF team at Waterloooville – approx 6 patients, 5 with heart failure, 1 with hypertension
 - The CRIS team based at Queen Alexander Hospital have 5 patients all with COPD
 - 6 Community teams- just starting approx 3 patients currently but expecting more to use- COPD patients
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Findings so far

- Earlier interventions- Assisted in prescribing oxygen and starting rescue medication
 - Allows clinicians to prioritise patient visits
 - Patients get telephone support and timely visits
 - Other examples- partner/carer can assist, reassurance etc
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Further possibilities

- Use in Residential and nursing homes
 - Multi-use Telehealth clinic kit pilot
 - Managed telehealth system
 - Other peripherals- ECG monitor, blood coagulation testing, Glucose Meter and Peak Flow monitor
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