Connected Health contribution to Health and Well-being

Eddie Ritson Programme Director 9th Feb 2011





Agenda

- Societal needs & challenges facing the HSC – the potential contribution of connected health
- About Long Term Conditions and Remote Telemonitoring
- 3. About the Future





Societal needs & challenges facing the HSC Potential contribution of connected health





What is the context?

- Changing Demography
- Changing Social Structures
- Changing Patterns of Disease and Medicine
- Public Expectations
- Patient Safety





What do People Want?

- Improved quality of life, health, well-being & independence
- 2. To be supported & enabled to self-care & to be involved in decisions about them
- 3. To have some choice & control over their care & support
- 4. To have services which are integrated, flexible, proactive & responsive
- 5. To have services that are high quality, efficient & sustainable





What are our key challenges?

- Increasing demand (demographics & morbidity)
- Quality, safety and accessibility
- Improving performance
- Resource constraints
- Large & complex system, hard to change





The relevance of technology

- Touches every aspect of our daily lives
- Speed of change
- Delivery of health and care today is dependent upon technology
- But, we remain a slow adopter
- Significant opportunity to improve quality, safety and efficiency





Contribution to Connected Health



Role of ECCH

- To improve the quality and responsiveness of health & social care services by assisting the faster adoption of technological innovation
- Contribute to the advancement of the wider European e-Health agenda
- Contribute to the establishment of NI as an outward focussed and competitive region in the global economy



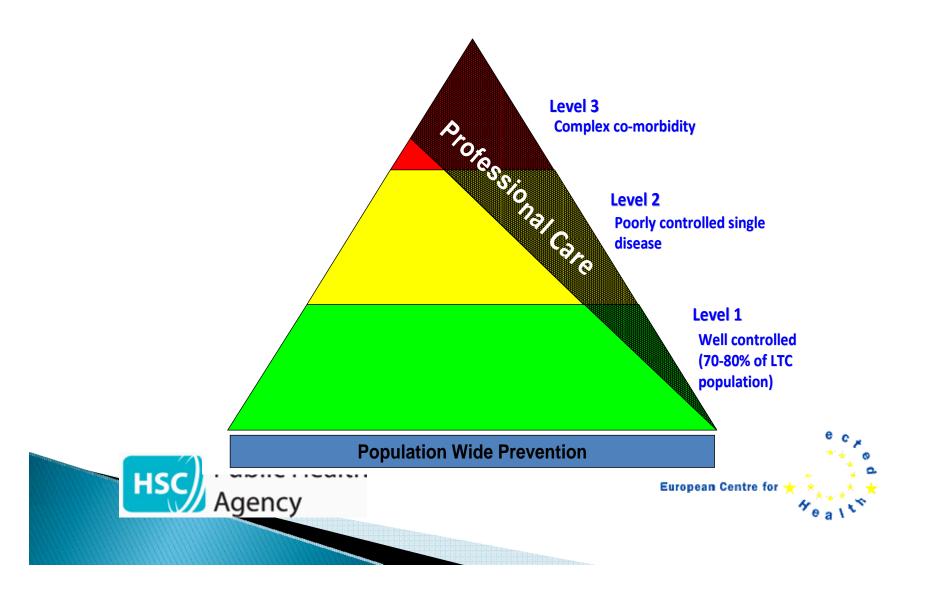


About Long Term Conditions and Remote Telemonitoring





Chronic Disease Management Triangle



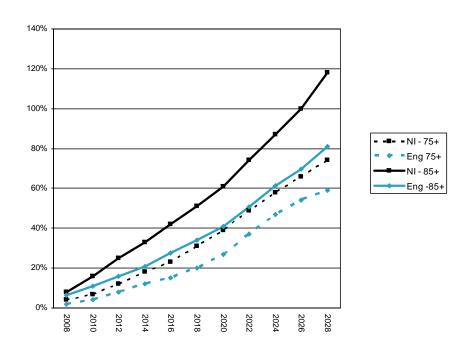
Why LTC focus?

- ▶ 60% of patients >65 have at least 1 LTC. This population is set to rise by 50% by 2025
- This population currently account for:
 - 52% of all GP appointments
 - 65% of all OP appointments
 - 72% of all I/P bed days
 - Are twice as likely to have used SSD within last 6 months
 - Are three times as likely to have used Community Nurses within last 6 months
- Probably > 70% of all current healthcare expenditure

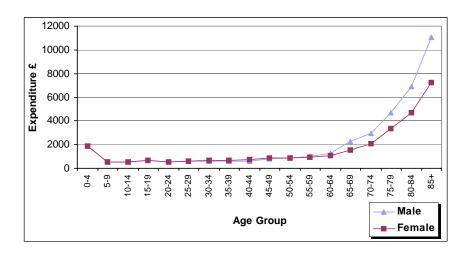


Although NI currently has a younger age profile than England, its elderly population, who have very expensive care costs, are growing more rapidly, placing an increasing demand on resources.

Projected percentage increase in elderly population (relative to 2006)



Age/Gender Costs – All Services, 2003/04







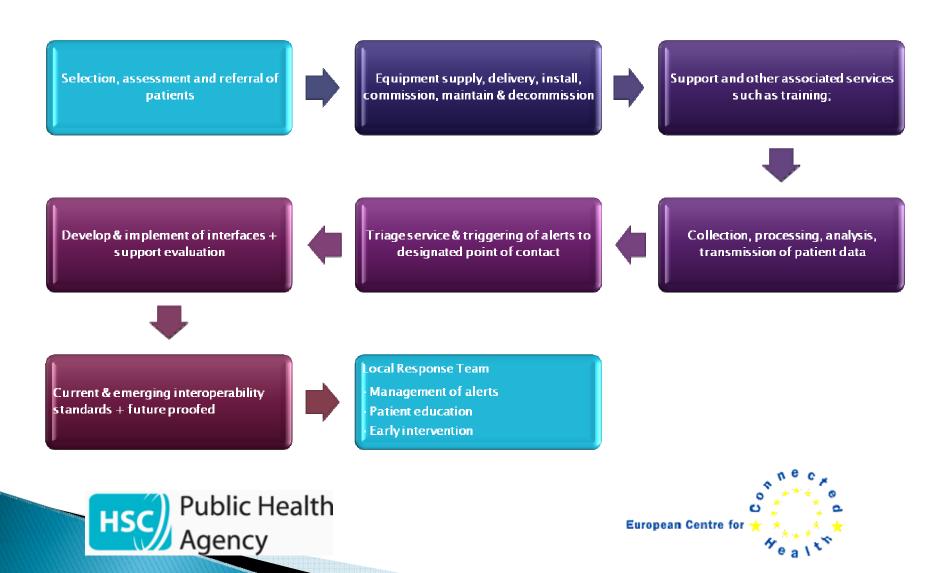
Vision for Remote Telemonitoring

- Bring information to professionals, enabling more proactive, effective and co-ordinated community based care
- Provide greater support for self-care and for carers
- Large scale, end-to-end service
- Flexible, i.e. responsive to individual needs and local circumstances
- Part of a new way to manage increasing burden of chronic disease which is both more efficient and better quality





The Service We Wish To Procure



Anticipated Benefits

- Improving quality of care & quality of life for patients
- Informing patient-centred case management. Enabling reductions in inpatient admissions
- More & better targeted proactive support, enabling greater patient control
- Optimising use of staffing resources
- Improved quality assurance through improving the flow of accurate & timely information





Where we are now with RTNI

- Well developed service specification including robust performance management framework and future flexibilities
- Robust commercial contractual framework, with significant Authority rights
- Enduring regional contract management responsibility (PHA/Board)





Where we are now with RTNI

- Two consortia bidders
- Best & Final Offers received
- Evaluation complete end of February
- Business Case, annual investment of circa £2.7m
- Contract award middle of March





Critical Success Factors: Learning to Date

- Alignment with strategic and operational health and social care agenda
- Design, procurement and implementation are complex - requiring regional leadership, drive and resourcing
- Securing local, clinical and corporate support and ownership is vital. Focus on quality, safety and patient experience – efficiency is a by-product





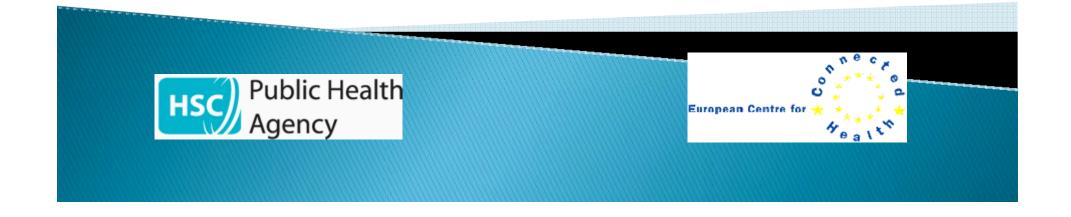
Critical Success Factors: Learning to Date

- Promotion of 'logic' and evidence base
- Pilots are helpful but need to be strategically aligned, of sufficient scale and designed to be tested
- Scaling an application is <u>significantly</u> more complicated than piloting and takes time





Connected Health - About the Future



Strategic Agenda: Where technology can make a positive contribution

Promoting health & wellbeing Providing access to validated information to support self management

Helping individuals to live independently.

· Systematic approach to the deployment of telecare

Early intervention strategies

 Utilising technology to assist management of hypertension

Supporting professionals and multi-disciplinary networks

Providing access to validated information to support decision making

Quality and safety

· E-prescribing and medication concordance





ECCH role in the future

- Develop resource centre/knowledge baseSign-posts to local
- Sign-posts to local services, networks, voluntary sector.

Develop knowledge base

Act as a "catalyst"

- Making it happen !!
- Bring together relevant expertise
- · Innovation hub
- Seek out external funding opportunities

- Unique position –
 insight to healthcare
 policies +
 development of
 connected health
- Develop strategic thinking in connected health

Coherent use of connected health

Facilitate collaboration

- Academia
- Business
- Clinicians

Agency



Our Connected Health Strategy Should:

- Focus on proven and stable technologies that are beneficial and meets healthcare needs in Northern Ireland
- Keep abreast on developments on the new and emerging technologies
- Trial for suitability of implementation of new/emerging technologies





Key messages from strategies

Dissemination and sharing of all kinds of information (in huge quantities and "all over the shop" - information such as: Condition, treatment, post-treatment Cancer · Services, self-management, carer's issues, funding Need to have a central "place" where patients/clients can get information and message be signposted to local services Dementia Need for central "co-ordinator" Common **Palliative** Need to improve clinical outcomes to more prompt treatment, etc... Care Need to access to better quality of care Need to raise awareness of prevention where applicable (cance) stroke and dementia) **Stroke** Better training and support on awareness and detection for professionals and

across non-healthcare bodies (schools, etc..)

Connected health contribution

- Information sharing, patient support
 - Central Patient Information Database
 - Patient Portal
- Improve clinical outcomes
 - Access to specialists in a prompt manner
 - Prevention and awareness
 - · Video conferencing, mHealth
- Improve access to better quality of care
 - Video conferencing
- Improve quality of care
 - Telehealth, Assistive technologies, mHealth
- Improve awareness and better training and support
 - Video conferencing, mHealth





mHealth Examples

- Prevention sunscreen, teenage pregnancies, sexual health
- Long term condition management such as diabetes
 - Allows patients to upload and manage blood glucose readings
 - Some apps review and evaluate results; and collate other relevant information such as weight, exercise and nutritional information
- Medication adherence asthma, diabetes
- Appointment reminders





Telemedicine

Example areas for applications

- Teleconsultation/Teleconference remote/isolated location, access to specialised clinical expertise, access to shared clinical expertise e.g. Oncologists; faster access to clinicians for Stroke patients
- Training specialised training for professionals and/or rehab for patients or carers e.g. Cancer patients
- Support between patients/carers and clinicians/ professionals
- Diagnostics in cases of dementia enables clinicians to detect abnormal behaviour from patients through CCTV (see Dr David Craig study)





Assistive technology

Example areas for application

- Telehealth
 - Disease management LTCs, post Stroke, etc
 - Symptom management Cancer (Pain, emotional distress)
- Telecare
 - Disease management dementia, epilepsy
 - Support to patient and carers
- Medication adherence





Conclusions

- Health systems around the world face huge challenges and are seeking to modernise and innovate faster
- Connected health is seen nationally, across Europe and internationally as corner stone to such modernisation
- Technology has a substantial role in enabling and assisting system response. Properly harnessed it has the potential to improve the care and treatment of patients & clients, improve working lives and contribute to service modernisation





Conclusions

- Virtually limitless possibilities
- Not about technology, it's about harnessing technology to radically change how we empower people and change traditional professional practice
- Change needs to be embedded, focus needs to be on systematic application as well as on new research
- NI has unique opportunity



