NEWSLETTER
December 2014

Welcome to the December 2014 newsletter from Innovate UK (previously Technology Strategy Board), Knowledge Transfer Network and the Telecare Learning and Improvement Network.

Launched October 2005, our free monthly newsletter is now distributed to 48,000 subscribers in the UK and worldwide via e-mail and archived at www.telecarelin.org.uk. You can also find highlights on Rebelmouse (daily) or by following Mike Clark on Twitter (@clarkmike). With over 500 news and event links over the last month, we hope that you find this newsletter useful.

After an additional £700m to support hospitals this year, the Chancellor's Autumn Statement has identified nearly £2bn of extra cash for the NHS in England from next year. NHS England's Board recently looked at how the money will be allocated. The extra funding comes at a time when the NHS has recorded its worse two weeks of hospital waiting times against the four hour target. The Government has announced further spending cuts for local authorities which could impact on how social care is provided. The NHS Mandate for 2015/16 has been published – the arrangements for digital and technology remain similar to the 2014/15 mandate. The final Better Care Fund Plans are expected in the coming weeks ready for an April 2015 commencement along with substantial changes brought into effect by the Care Act 2014 in England. Scotland, Wales and Northern Ireland face similar pressures on their health and care systems as funding remains very tight. NHS England is now expecting new care models to be developed in 2015 as part of the extra cash investment but there will also be significant efficiencies to be found. The recent 'Five Year Forward View' and 'Personalised Health and Care 2020' report set out some of the potential models and milestones for technology and digital innovation. As 2015 commences, new toolkits are expected for technology enabled care services. The Long Term Care Revolution continues its national discussion ahead of its competition launch in Spring 2015. New conferences are being added to the listings including the RSM event in February and King's Fund Digital Health and Care Congress in June 2015 (current call for papers). Along with the usual links listing, there is an extra supplement this month covering public domain links to telecare in England (more coverage to come in 2015) – if you know of further projects and programmes, then do let us know.

For weekly news, updates and information, you can register with Innovate UK's ALIP group and the dallas group. You can follow the dallas programme on Twitter at @dallas_connect. You can also follow the Long Term Care Revolution at #LTCRevolution or via Facebook.

Contents

Two supplements are available this month:

- Links Supplement in two formats – pdf, doc

- Telecare links in England – pdf, doc

The newsletter is Prepared by Mike Clark (Twitter: @clarkmike and http://storify.com/clarkmike) for Innovate UK, KTN, ALIP Knowledge Transfer Network and Telecare Learning and Improvement Network.

# Item 1 – Updates from the Long Term Care Revolution and dallas

(i) Long Term Care Revolution

We have been keeping you up to date with The Long Term Care Revolution, with its ambitious search for radical and innovative new ideas to disrupt the current long-term care institutional model. This month we have news from the DALLAS programmes and look ahead to the Long Term Care Revolution in 2015.

Don't forget you can keep up with our news via our [webpage](#), [Facebook](#) and via @rev_innovateuk on Twitter. You can also follow the Twitter [discussion](#) via Symplur.

We are glad to see progress in the long term care field being recognised more widely.

[DALLAS](#) (Delivering Assisted Living Lifestyles at Scale) is another project developed by [Innovate UK](#), joint funded by the National Institute for Health Research and the Scottish Government, and is working on improving health, wellness and quality of life for UK older adults.
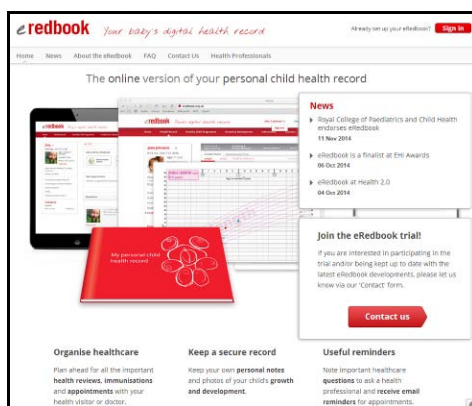
One part of the DALLAS programme, [Year Zero](#), is creating a suite of innovative digital services and apps, each of which will be supported by, or interact with, an individual's Personal Health Record (PHR). This is an online record owned by the patient, allowing them to add and organise personal health information, as well as to integrate health records from different providers, and share this

with other individuals and institutions at will. Products currently being rolled out through Year Zero include eRedbook, a digital version of the familiar Redbook (the Personal Child Health Record) and this has recently been endorsed by the Royal College of Paediatrics and Child Health. Full story here.

Similarly, Living it Up – another part of the DALLAS programme - has been awarded a prestigious Digital accolade at the Scottish Public Service Awards. The award recognises the use of technology to deliver improvements in public services. More on this story later in this newsletter!

Looking ahead to 2015, the Long Term Care Revolution will be running workshops in the lead up to the opening of the National Challenge SBRI competition in May 2015. We hope many of you will attend and find out how you can get involved, and will be publishing details both in this newsletter and on the webpage as soon as we have them finalised.

In the meantime, we hope you have a great time over the holidays and wish you a Happy New Year!

We know there are many other projects out there with similar aspirations to the Long Term Care Revolution. We'd love to hear about yours. Please contact us at TeamSandstorm@advant-age.co.uk.

(ii) Shirley Ayres talks about the new Long Term Care Revolution Provocation Paper

Contributed by Shirley Ayres (@shirleyayres) https://shirleyayres.wordpress.com/

On 25 November, my Long Term Care Provocation Paper was published to support the launch of the Innovate UK Long Term Care Revolution National Challenge.

It is clear that we need to radically rethink how different services and sectors can work together to develop innovative solutions for long term care. Innovate UK are to be congratulated on the National Challenge which is finding radical and innovative new ideas that will disrupt the current long term care institutional model. As a society it is time to challenge the assumption that residential care should be 'the norm' or regarded as the only feasible option for older people, especially those aged over 85 years and/or those with high support needs.

'Old' is a poorly defined statistical category not an identity. Older people are not one homogenous group all sharing the same dreams, aspirations and life experiences. People in later life offer wisdom and a wide range of skill sets and capacities. Why are we not utilising the wealth of knowledge and experience of older people to develop and deliver community services that meet their needs?

We need a cultural mindshift which challenges the idea of older citizens being 'objects of charity' rather than active consumers. Older people are inevitably portrayed as being fragile, helpless,

isolated and lonely. How do we change the narrative and think about a future where people look forward to later life with a wide range of choices and options to live a fulfilling life which is not dependent on health, locality or relationships?

Living choice are influenced by standards, regulations, the design of new housing and lifetime home standards. What are the options for the retrofitting of existing housing stock; shared lives and co-housing? Where is the thinking across social care, health and housing about the importance of smart technology enabled homes?

The most powerful need we humans have is to be connected & to remain connected irrespective of age or location. Technology is now omnipresent in all strands of everyday life. Rather than just talking about life enhancing technologies let's prepare people for the future by showing them what is possible and how digital technology and social media can support and enhance wellbeing, community connections and independence in later life.

It is time to bring together all the sectors with an interest in improving the quality of later life for older citizens. This is complicated because there are so many different organisations and numerous reports in the area of ageing better and living well in later life. The extensive list includes: health and care sectors, care providers, housing associations, emergency services, Care Quality Commission and the wider social sector with bodies such as Joseph Rowntree Foundation, Kings Fund, Centre for Ageing, Independent Age, International Longevity Centre , Age UK, CarersUK and the Design Council. Funders including Innovate UK, Nesta, Big Lottery Fund, Nominet Trust, universities and technology innovators. (This is only a sample of the organisations involved in this area). It is unclear how government departments are collaborating with this agenda, for example Health, Communities and Local Government, Work and Pensions, Cabinet Office, and Business, Innovation & Skills all need to be involved.

I do wonder if all of these bodies have ever sat down together to explore more effective collaborations and how to avoid the duplication of effort, resources and reports in addressing the same challenges?

There are tough and uncomfortable questions to be discussed to inform the debate about how we can all look forward to a future without fear of being abandoned to a market where vital care and support is determined by our income and locality rather than our needs and personal preferences. We have to address the potential shortfall in both formal and informal carers in the future with more people living on their own who do not have families to support them.

I want a clear vision for the future which offers a coordinated system with many different life choices for citizens in later life. This is not just the responsibility of one sector it needs to engage each and every one of us at local, national and UK wide levels in a public debate about our hopes and aspirations for care in later life.

Paul Taylor (@paulbromford), Innovation Coach at Bromford Housing calls for the reimagining of the housing, health and care sectors that have a long history of doing things to, and for, people rather than promoting autonomy , connectivity and self determination. The long term care revolution we need calls for a radically different view of age and skills covered in Paul's recent post 'A Revolution in

Care Requires a Revolution in Thinking'.

The new Radio 4 series 'The Invisible Age' has also been looking at the issue of sixty plus age groups encompassing several generations and how we as a society regard older citizens. The recent 'You and Yours' [programme](#) asked the question *do people treat you differently once you're over 60'*. I was invited to discuss with Winifred Robinson our attitudes to ageing, whether people are ignoring ageing issues and why we need a long term care revolution.

There have been lively debates on Twitter and you can read the transcripts [here](#) and join in the discussion by using the hashtag #LTCRevolution and following @rev_innovateuk

(iii) dallas – Living It Up
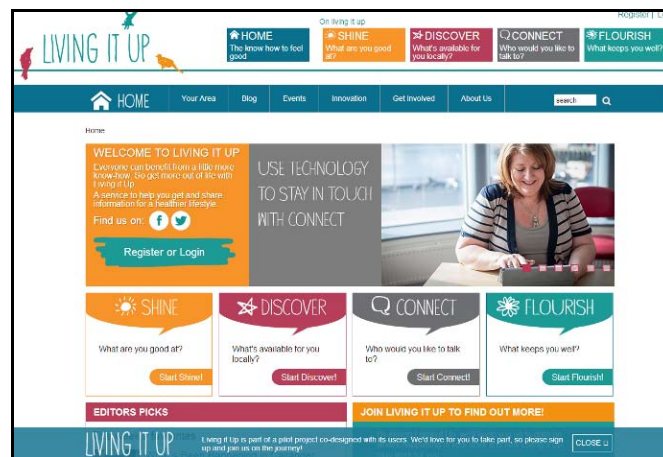
[Living it Up](#) has been awarded a prestigious Digital accolade at the Scottish Public Service Awards.

The innovative self management hub won the Digital award which recognises the use of technology to deliver improvements in public services. Living it Up, which is part of the UK-wide dallas programme, has been co-designed by 3000 people from across the programme's five initial Scottish regions – Lothian, Forth Valley, Moray, Highland and the Western Isles – and is led by NHS 24. The digital service provides information, services and tools to support the health, care and wellbeing of the over fifties.

The award was presented by Mike Nielson, Digital Director at the Scottish Government, at the ceremony held at the Scottish Parliament and was marked against the following criteria:

- The effective use of technology to improve service provision
- The effective use of technology in making a public service(s) more accessible to the citizen
- The effective use of technology to increase the operational efficiency or effectiveness of a public body

Professor George Crooks, Medical Director, NHS 24, said: "We are delighted to achieve this honour. It's a tribute to all those involved, including the thousands of Scottish people who have helped in the design of the service and the many organisations both large and small from across Scotland who have worked in partnership to create what will be a powerful service that will allow people to help themselves and others to achieve healthier lifestyles."

The Scottish Public Service Awards were set up to recognise the wider contribution made to Scotland's civic society including Scottish Government, the Third Sector and the wide-ranging and diverse responsibilities of public agencies.

Angela Lindsay (NHS Lothian) and Moira Mackenzie (NHS 24), with Mike Nielson, Digital Director, Scottish Government

Item 2 – The King's Fund Call for Papers for Digital Health and Care Congress 2015

The call for papers for The King's Fund's 2015 Digital Health and Care Congress is now open. This year the overarching theme for the congress is enabling patient-centred care through information and technology.

The congress scientific committee are looking for current or latest research results and/or reports on the progress and impact of innovative projects in digital health, and authors are encouraged to submit papers to one of the main themes indicated below:

•	sustaining independence as people age

•	preventing and managing chronic illness effectively

•	engaging health care professionals and commissioners

- digitally enabling service transformation.

The abstract submission deadline is 13 February 2015.

To find out more visit: http://www.kingsfund.org.uk/events/digital-health-and-care-congress-

Item 3 – Recent developments in digital health – upcoming event from RSM in February 2015

Contributed by Charles Lowe

'Recent Developments in Digital Health' will take place on 26 February 2015 at the Royal Society of Medicine.

The meeting will explore the current developments and future applications of digital health across the NHS and private care settings. Using real world examples, lectures and interactive discussions, this meeting will keep delegates up to date with modern trends and give the opportunity to network with other likeminded professionals.

Presenters will include Professor Marco Viceconti from the University of Sheffield's Virtual Physiological Human Institute, Dr Rob Beardall Chief Medical Officer at NantHealth UK and Professor Kazem Rahimi, Director of the Healthcare Innovation Programme at the George Institute for Global Health, University of Oxford. For more details and booking: https://www.rsm.ac.uk/events/events-listing/2014-2015/sections/telemedicine-ehealth-section/tef02-recent-developments-in-digital-health-2015.aspx

Item 4 – Next DHACA Members' Day – 29th January 2015

Contributed by Charles Lowe

The next Digital Health & Care Alliance (DHACA) Member's day will be held on 29 January 2015 in the Digital TV Group's HQ in Vauxhall.

The day will focus on two key areas: how DHACA can best respond to the NHS's recent Personalising Health to 2020 paper and how DHACA can best reduce the reinvention of wheels in the UK's health and care sector. Each of these two segments will begin with a short talk from an expert in the field followed by discussion in Special Interest Groups, before a concluding feedback session.

Attendance is free to members. Attendees are limited to 80, with some 40 already booked, so go to www.dhaca.org.uk soon if you want to join us!

Item 5 – Digital Health Assembly – Open Innovation Conference – February 2015

The Digital Health Assembly: Open Innovation' Conference 2015 (10-12 February 2015, Swansea) is welcoming digital health professionals from around the world to unite in a common goal – to accelerate developments in Digital Health through Open Innovation. The conference will be focusing on the themes of Big Data, Empowering Patients and Staff and Innovative Business Models.

Item 6 – UK policy announcements

Here is a roundup of UK policy news over the last month. A fuller listing is available in the supplement (pdf, doc).

(i) The Department of Health has issued an update on NHS winter planning.

(ii) The Better Care Fund plans commence in April 2015 – Most of the 151 plans are still to receive full approval (only six authorised so far) – the Department of Health has published 'Better Care Fund: how it will work in 2015 to 2016'.

(iii) Emergency care for the mind - Care and Support Minister Norman Lamb explains why mental health crisis care is essential.

(iv) The Department of Health has released Jeremy Hunt's statement on the future of the NHS. NHS England has published Simon Stevens' response to the HM Treasury's announcement of additional funding for the NHS.

(v) New laws for more open and safe NHS care come into force – The Duty of Candour and Fit and Proper Person's Test will help improve patient safety, transparency and leadership in the NHS.

(vi) The Department of Health has published:

- NHS outcomes framework review
- NHS Outcomes Framework 2015 to 2016
- Public health commissioning in the NHS 2015 to 2016
- Public Health Outcomes Framework 2013 to 2016
- Public health grants to local authorities from 2013 to 2016
- Department of Health mid-year report 2014 to 2015

(vii) The NHS Mandate for 2015/16 has been published – as last year, Section 2.7 covers tech and digital.

(viii) The Dalton review has been published covering options for providers of NHS Care.

(ix) Dr Robert Varnam writes for NHS England on the 20 pilots in the Prime Minister's Challenge fund who are testing innovations in access and care.

(x) In an NHS England blog, Dr Richard Sweeney looks at meeting the dementia challenge of an ageing population in Harrogate.

(xi) According to NHS England, as of September 2014, 21% of patients in England have been able to access their medical records online, a significant increase on 2% this time last year. The latest figures include:

- 99% of general practices have the capability to allow patients to book or cancel appointments online

- 91% of patients are registered with general practices that offer the ability to book or cancel appointments online. This is up from 64% at the same point in the previous year

- 98% of general practices have the capability to allow patients to view or order repeat prescriptions online

- 88% of patients are registered with general practices that offer the ability to view or order repeat prescriptions online. This is up from 64% at the same point in the previous year

- 84% of general practices have the capability to allow patients to view their medical record online

- 21% of patients are registered with general practices that offer the ability to view their medical records online. This is up from 2% at the same point in the previous year

(xii) NHS England has launched Commissioning for Carers: Principles and Resources to Support Young and Adult Carers.

The ten principles are:

1.   Think Carer, Think Family; Make Every Contact Count
2.   Support what works for carers, share and learn from others
3.   Right care, right time, right place for carers
4.   Measure what matters to carers
5.   Support for carers depends on partnership working
6.   Leadership for carers at all levels
7.   Train staff to identify and support carers
8.   Prioritise carers' health and wellbeing
9.   Invest in carers to sustain and save
10.   Support carers to access local resources

A suite of products has been developed that will help commissioners and practitioners to deliver appropriate support for carers. The NHS Five Year Forward View commits the NHS to finding new ways to support carers, to build on the new rights created by the Care Act and to help the most vulnerable carers – the approximately 225,000 young carers and the 110,000 carers who are aged over 85.

(xiii) NHS England and Monitor have published plans describing changes to how healthcare is paid for, which will enable the NHS to introduce new models of care. The use of 'capitation' payments to NHS providers could benefit older people and those with multiple care needs, such as the 17 million people with long-term conditions.

(xiv) NHS England has launched the Realising the Value Programme, a new initiative to empower people and communities to take more control of their health. Through this initiative, NHS England will award a grant of up to £500,000 to a charity or not for profit organisation (or consortium) to identify evidence-based approaches to self-care. This programme will also support the

commissioning and spread of such approaches, across local communities, and in the NHS, to empower people to take an active role in their health and care.

(xv) Information is available on Home Care Services, Direct Payments, Community Alarms and Telecare, Meals services and Housing Support Services from the Scottish Government.

(xvi) In early 2015, the Department of Health will publish its vision for the future of dementia policy in England. This follows on from the Prime Minister's 3-year dementia challenge, which ends in March. The document will set a strategic direction for domestic dementia policy to 2020.

(xvii) Following a consultation period, The Department of Health has published 'Care Act 2014: funding allocations for new adult social care duties'. This consultation response sets out local authority funding in the financial year 2015 to 2016 for:

- early assessments against the cap on care costs: £146 million
- universal deferred payment agreements: £83.5 million
- carers and Care Act Implementation: £55.5 million
- social care in prisons: £11.2 million

(xviii) Following the December Board Meeting, NHS England has published the clinical commissioning group (CCG) and primary care allocations for 2015-16 and the notional split to CCG level to support the primary care co-commissioning agenda and the notional specialised commissioning balance by CCG for 2015-16. The allocations include the recently announced £1.98bn of additional funding for frontline health services and to help kick start the transformation agenda set out in the NHS Five Year Forward View.

- NHS England is passing £1.5 billion to frontline health services including primary care, local clinical commissioning groups (CCG), and specialised services. Every CCG will get real terms budget increase. More of the extra funding for local health services is being used to more rapidly increase NHS budgets for those parts of the country with the greatest health needs, where the population is growing rapidly, and where services are under greatest pressure.

- £480 million of the extra funding (on top of the £1.5 billion described above) will be used to support transformation in primary care, mental health and local health economies;

- Spending on GP and primary care services will for the first time in a number of years grow in real terms at a higher rate than for other local health services, in recognition of the pressures in primary care.

- To begin tackling relative underinvestment in mental health services, every CCG will be expected to use its extra funding to increase funding for local mental health services in real terms next year by at least the level of the CCG's overall funding growth. In addition a further £110 million of dedicated purchasing power is being injected nationally to improve services for people with severe mental health problems, with anxiety and depression, and with eating disorders particularly children and adolescents.

In addition, Planning Guidance for the NHS has been published, setting out the steps to be taken during 2015/16 to start delivering the NHS Five Year Forward View. NHS England, Monitor, the NHS Trust Development Authority, the Care Quality Commission, Public Health England and Health Education England have come together to issue the joint guidance called The Forward View into action: planning for 2015/16, The planning guidance requires leaders of local and national health and care services to take action on five fronts.

The Guidance:

- sets outs seven approaches to a radical upgrade in prevention of illness with England becoming the first country to implement a national evidence-based diabetes prevention programme
- explains how £480 million of the £1.98 billion additional investment will be used to support transformation in primary care, mental health and local health economies
- makes clear the local NHS must work together to ensure patients receive the standards guaranteed by the NHS Constitution
- underlines the NHS's commitment to giving doctors, nurses and carers access to all the data, information and knowledge they need to deliver the best possible care
- details how the NHS will accelerate innovation to become a world-leader in genomic and genetic testing, medicine optimisation and testing and evaluating new ideas and techniques

Also available: NHS planning timetable for 2015/16

(xix) The Department of Health has made a decision to withdraw central funding for NHSmail SMS and fax services for all organisations on 31 March 2015. NHS England has now formally agreed to support a replacement SMS service for primary care organisations that use the current NHSmail SMS service until 30 September 2015. NHS England have taken this decision to provide additional time for existing primary care services, to make provisions with general practices, to transition this to a local service from 1st October 2015.

(xx) There is a new NHS England blog from Professor John Young - National Audit of Intermediate Care 2014 - under provision remains the issue.

(xxi) The winter health check report for 19 December 2014 is now available and highlights the system pressures on health and care services in England.

(xxii) NHS England has published updated guidance to help commissioners, GPs and providers support mental health patients exercising their legal rights to choose who provides their care and treatment.

(xxiii) New from NHS England – 'Developing a new approach to palliative care funding: A revised draft for discussion'.

(xxiv) The Department of Health has announced Eleven new centres across England have been chosen to deliver the 100,000 Genomes Project.

(xxv) The Scottish Government has announced additional investment in health services for Winter:

- £8.2 million from the £50 million Unscheduled Care Action Plan fund to improve the way emergency care operates within hospitals
- £10 million to address delayed discharge

Item 7 – Other news

Here is a roundup of other news over the last month. A fuller listing is available in the supplement (pdf, doc).

(i) The Government's Autumn Statement has announced nearly £1.98bn of additional funding for the NHS in England – allocation arrangements have been announced by NHS England (see previous section). There has been a lot of press coverage over the announcement. Examples include:

- Autumn Statement: George Osborne announces £2bn to save NHS
- Autumn Statement: why the NHS needs more than Christmas cheer
- David Cameron admits NHS is under pressure
- Ex-care minister: Quarter of NHS cash boost should go to social care
- George Osborne won't wave a magic wand on NHS but £2bn is welcome
- It's not just about the money - NHS funding
- More money isn't the right prescription for the NHS
- NHS funding - Oral statements to Parliament - GOV.UK
- NHS funding: How do the sums add up?
- Osborne to pledge extra £2bn for NHS
- Why the care sector is green with envy
- What does the Autumn Statement mean for health and social care? The King's Fund

However, local authorities are faced with a further round of cuts – 'Local council cuts: spending power by authority' (Guardian article).

(ii) Freedom of Information requests to local authorities suggests that 300,000 disabled people waiting for housing are living in unsuitable homes. (Guardian article)

(iii) New Health Survey information finds that half of women and more than four in 10 men surveyed said they had taken at least one prescription medicine during the past week. The total drugs bill for England is now £15bn (BBC article).

(iv) Whilst health services ponder the idea of video consults, Barclays is set to offer video banking.

(v) Pressures continue on local authority funding and there has been a lot of coverage of Birmingham's position:

- Birmingham city council to axe thousands of jobs as part of dire cuts
- Birmingham faces 'virtually impossible' task of funding essential £140m improvements to children's services

(vi) An innovative residential community that helps Hereford residents with dementia keep their independence has picked up a national award from the Telecare Services Association. Henffordd Gardens is a 30-apartment cluster opened in January 2014 with the aim of helping residents live independently and reduce the likelihood of them being admitted to hospital. At Henffordd Gardens, residents can access the latest in telecare and telehealth technology. They also have an on-site concierge and individually tailored support and care packages (Article from Ledbury Reporter).

(vii) The Guardian has an [article](#) on a Sunderland 'Boiler on prescription' scheme that could help transform lives and save NHS money.

(viii) The first two weeks of December has seen the worst weeks for NHS wait time performance since records began.

- [Delayed discharges reach record high](#)
- [Hospitals under pressure as bedblocking' hits record levels](#)
- [Hospitals struggling as winter hits](#)
- [Jeremy Hunt under pressure over looming winter crisis in A&E](#)
- [Burnham: Worst week on record in A&E](#)
- [More patients, fewer doctors - is the NHS facing a winter crisis?](#)
- [Patients deserve better out-of-hours care](#)
- [Patients endure waits of up to 35 hours in A&E](#)
- [No one will admit what is facing the NHS - but the crisis isn't over](#)
- [Number of patients waiting on trolleys in A&E triples](#)
- [NHS: crisis feared as record patients wait more than four hours in A&E](#)
- [Winter crisis: Number of 'bed-blocking' patients reaches record high](#)
- [Andy Burnham: collapse in social care threatens NHS](#)
- [A&E has 'worst week' in England](#)
- [Winter pressure - how helpful is NHS 111?](#)
- [Why are hospitals under so much pressure?](#)
- [NHS crisis grows as young Britons turn their backs on family doctors](#)
- [NHS 'buckling under strain' as Christmas approaches](#)

(ix) Minister for Care Norman Lamb recently [revealed](#) that he is working towards developing more apps to help young people suffering with mental health problems and depression.

(x) Can social care research be memorable and fun to read? New [website](#) – the Social Care Elf ([Guardian article,](#)[Other Elf websites)](#)

(xi) As part of Carers Rights Day, Carers UK has published some new documents:
- New edition of the Carers Rights Guide
- New factsheets on assessments in Wales, Scotland and Northern Ireland
- New factsheet on assessments in England once the Care Act is implemented in April 2015

(xii) 'People with Dementia lack proper care because the illness is not recognised as terminal', according to the Marie Curie charity and the Alzheimer's Society in a new report (Guardian article). Also:

- Dementia care: the way sufferers are looked after needs to be transformed
- Dementia patients 'lack proper care'

(xiii) The challenge of large scale IT implementation in Health – article about Cambridge Addenbrookes Hospital. (BBC Article).

(xiv) The DNA test, '23 and Me' is being launched in the UK (BBC article).

(xv) With winter and the holiday season, loneliness and isolation of people and communities across the UK has been highlighted:

- Connected generation as lonely as the elderly
- Many elderly 'struggle' at home
- Many face Christmas alone - poll
- Many lonely elderly call helpline
- Phone groups break down social barriers for housebound older people

(xvi) The All Party Parliamentary Group for Patient and Public Involvement in Health and Social Care has published it inquiry on Care.data.

See also:

- Controversial NHS patient data sharing pilot scheme may be delayed until 2015
- Health data: the key to disease prevention or a privacy intrusion?

(xvii) Nottingham's hospitals are to become the first in the country to pilot a new scheme which uses music to help patients with dementia - they are looking for donations of iPods to help.

(xviii) Interested in NHS Change Day (11 March 2015)? - Potential campaigns need to be registered by 28 December deadline (website).



(xix) In the Guardian, Peter Beresford argues that despite its promise, the Care Act will give little power to service users.

(xx) eHealth Insider provides an excellent source for updates on UK health informatics. Here is a selection of articles from the past month:

- E-Health Insider :: Call for better community services data
- E-Health Insider :: CQC under fire over monitoring data
- E-Health Insider :: Cumbria trust signs up to IT revolution
- E-Health Insider :: Digital health start-ups spin wheels
- E-Health Insider :: Helicon brings hearty service to GPs
- E-Health Insider :: Hunt says £2 billion is for 'change'
- E-Health Insider :: Liverpool trusts in £70m EPR tender
- E-Health Insider :: Manchester builds games to stop falls
- E-Health Insider :: NHS England silent on tech fund delay
- E-Health Insider :: Open source framework needed - CIO
- E-Health Insider :: Osborne 'finds £2 billion for NHS'
- E-Health Insider :: Power to the people on: the great confidentiality face-off
- E-Health Insider :: Santa spreads virtual cheer to hospitals
- E-Health Insider :: Stockport deploys end of life portal
- E-Health Insider :: Testing times for Epic at Cambridge
- E-Health Insider :: Volunteers sought for Code4Health pilots

(xxii) A commission on home care in England, chaired by Paul Burstow, calls for sweeping changes to the training of care workers, a new licensing system and steps to improve the status of caring as a career. The 'Key to Care' study, commissioned by the think-tank the Local Government Information Unit (LGiU), follows revelations about standards in domiciliary care. (Guardian article).

Key to Care
Report of the Burstow Commission on the future of the home care workforce

LGiU
MEARS
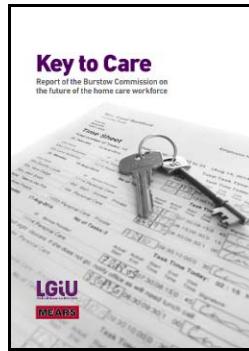
Also:

[Home care services 'close to crisis'](#)
[Home care system nearing crisis point, finds Burstow's Key to Care report](#)

(xxiii) Figures presented at a Royal Society of Medicine (RSM) conference showed those with dementia were six times more likely to be dehydrated. A quarter of those living in their homes without a carer did not get enough to drink. ([BBC article](#)).

(xxiv) An emergency call system dubbed eCall will be installed in all new cars from March 2018 under an agreement reached at the European Parliament. The system will send an automated call to the emergency services in the event of an accident. Research suggests that the mandatory use of the system could halve response times, especially in rural areas. ([BBC article](#))

(xxv) 'In the next decade healthcare is set to become more accessible, effective and democratic, irrespective of where in the world you are', believes Ali Parsa in an HSJ [Article](#) (subscription required) – 'Four reasons to be optimistic about the future of healthcare' -

1. Diagnostics has been improving at double the rate of Moore's Law

2. Information is already free and getting smarter

3. Smartphones and the internet will create a global channel of healthcare delivery

4. Intervention will be unrecognisable

(xxvi) A Guardian [article](#) takes a look at Google Glass after it became more widely available in the UK.

Also:

- [Google Glass Failed, but Here's the Path Its Successors Will Take](#)
- [Google Glass may be a technology in search of a problem, but what's wrong with that?](#)

(xxvii) People diagnosed with diabetes linked to obesity should be quickly assessed for weight loss surgery, according to NICE guidance. About 10% of the NHS budget is spent treating diabetes and its complications ([BBC article](#)).

(xxviii) In partnership with Hitachi, Salford Royal FT, and Salford Clinical Commissioning Group (CCG), NorthWest EHealth is set to deliver a telehealth service across the Salford area that will target people at the pre-diabetes stage, when they present with impaired glucose regulation (IGR). Following on from a proof of concept trial, the study will allow both diabetes specialist nurses and patients to view their progress implementing small lifestyle modifications. Using Salford's integrated electronic records system, and this new online interface, people at greatest risk of developing type 2 diabetes can be identified and supported to work towards healthy lifestyle goals.

(xxix) Improvements in road safety and workplaces mean that homes and leisure pursuits now cause far more injuries and deaths – 1,000 per month – than car crashes and industrial accidents, according to Dr Cliff Mann, president of the College of Emergency Medicine. Of the 22 million people a year who attend A&E, about seven million do so as a result of an accident. Overall, accidents cost A&E units about £1bn a year. (Guardian article).

(xxx) At a recent health conference, Jeremy Hunt has called for a significant increase in community and primary care nursing posts as part of the drive to boost services outside of hospitals (HSJ article – subscription required).

(xxxi) Need information and statistics on later life in the UK? - Later life in the UK - Age UK factsheet for November 2014.

(xxxii) "The NHS and pharma should look to digital technology to help the health service make the billions in savings needed over the coming years", according to UK life sciences minister George Freeman MP (PMLiVE article).

(xxxiii) Enabling people at-risk to get help in an emergency - Camden Telecare.

(xxxiv) A recent BBC programme featured Calderdale and Huddersfield care homes and the Airedale Telehealth Hub.

(xxxv) Big for 2014 and maybe bigger in 2015? - Is wearable technology simply hype or will it make a serious impact on health and wellbeing? - Making sense of wearables from the Telegraph.


(xxxvi) There is a new King's Fund Report on Managing quality in community health care services.

(xxxvii) Management of more NHS hospitals could be handed over to private companies in a shakeup of England's healthcare system, according to a government-commissioned review. It suggests the establishment of concessions by which companies were given contracts to operate publicly-funded hospitals and points to Spain as an example that could be followed (Guardian article).

(xxxviii) The latest National Chronic Obstructive Pulmonary Disease (COPD) Audit Programme has been published by the Royal College of Physicians.

(xxxix) Health Minister, Earl Howe was impressed on a recent visit to the Airedale Hospital Telehealth hub (Craven Herald Article).
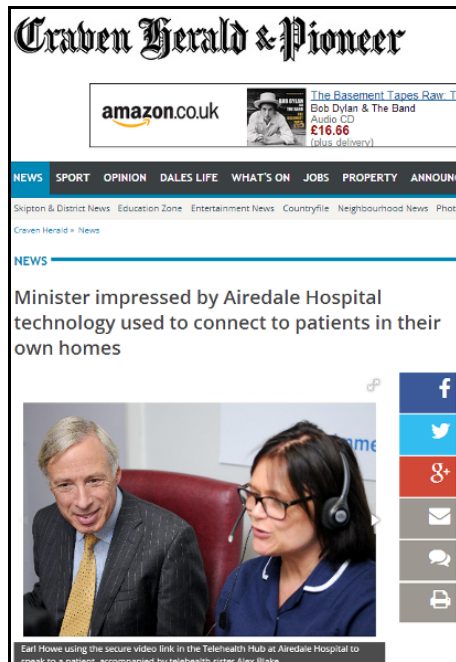
(xl) Broadmoor is to test a camera that remotely monitors patients' vital signs such as heart and breathing rate. Currently, staff have to carry out routine checks on patients up to four times an hour through the night. It is hoped the device will alert staff early to any attempts to self-harm and spare patients disruptive night checks. Testing with the remote monitoring devices will begin in the new year, initially with volunteer staff (BBC article).

(xli) An 'eDigest' published by NHS Improving Quality, describes the unseen problems faced by many of England's 1.2 million wheelchair users who do not routinely get the chair they need, in a timely

way, everywhere and every time. The eDigest – 'Right Chair, Right Time, Right Now' - is published to coincide with, and support discussions at, a wheelchair summit that took place in November 2014.
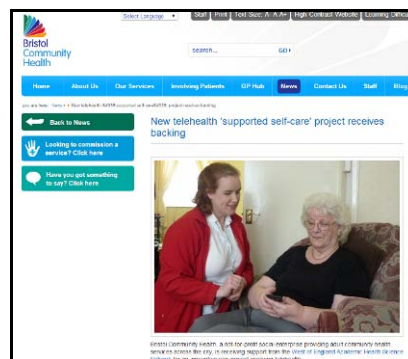

Also:
2nd National Wheelchair Summit

(xlii) A physiotherapy-led telehealth project to deliver pulmonary rehabilitation to people in their own homes is to be extended after a successful pilot.

(xliii) Bristol Community Health are working in partnership with Philips Healthcare and The Lennard Surgery to look at the feasibility of using a package of technology, education and support from clinicians (called 'supported self-care'), to empower appropriate patients to manage their health needs at home.

The project aims to increase patients' confidence in safely managing their own healthcare and keep them independent for longer. It will also highlight more complex patients, who require intensive monitoring together with regular support and coaching, to help them sustainably manage their conditions.

(xliv) 'Problem solving should be a priority for the NHS, not innovation' - Calls for innovation can distract from fixing issues faced by NHS staff and patients – agree or disagree? (Guardian article).

(xlv) Researchers at the Universities of Sheffield, Liverpool and the West of England, Bristol will address concerns around artificially intelligent robots. The £1.4 million project will run until 2018

and aims to ensure robots meet industrial standards and are created responsibly, allaying fears that humans may not be able to control them (Daily Mail article).

(xlvi) In a new Tunstall blog, Richard Milner Derbyshire County Council, explains how telecare is helping to support people who have history or at risk of falling to remain living independently at home.

(xlvii) Britain is becoming a nation of 'grandparents caring for great-grandparents', says Norman Lamb as new figures show two million elderly people poised to become carers (Telegraph article).

(xlviii) 'Training older people to use social media improves cognitive capacity, increases a sense of self-competence and could have a beneficial overall impact on mental health and physical well-being', according to a study carried out in the UK and Italy. During the two-year project, 120 older people from the south west of England and the Marche region of central Italy, were given specially-designed computers, broadband connections and training in using e-mail, Skype, Facebook and other social media tools. A control group received their usual care (Guardian article).

(xlix) A CQC report indicates that there is a wide variation in the way complaints are handled across the NHS, primary care and adult social care services in England (BBC News article).

Also:
Third of hospitals don't record visitor complaints

(l) The reconfiguration of clinical services – What is the evidence? – A new report from The King's Fund.
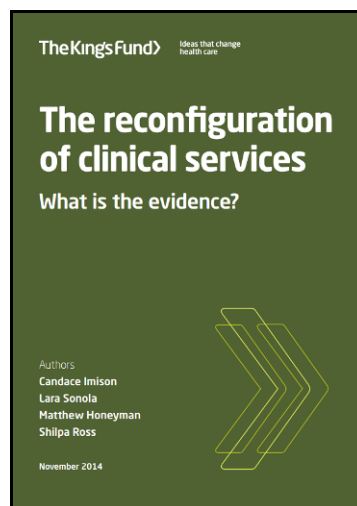
(li) In a Paul Burstow article, a study by the Institute for Education found that the 50-something generation is feeling sandwiched between child-raising, caring for elderly parents and the expectation that longer lifespans mean longer working lives. For many, the first six weeks of a caring role are often decisive when it comes to staying in work. One in five carers gives up work to care full

time. But many of these employees are companies' most valuable staff: the 45-64 year-olds at the peak of their careers. The Care Act 2014 gives councils a new duty to ensure there is a diverse range of services to meet people's care and support needs - For family carers having access to reliable, affordable personal and household services would allow them to care without being overwhelmed by day-to-day domestic chores.

(lii) From Centra Pulse – Ruth Langsford and the use of telecare by her mother (You Tube video).
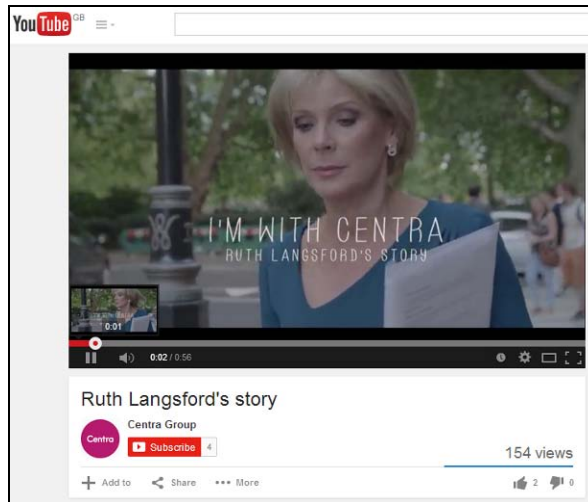
(liii) Useful gadgets and telecare from Solihull Council with Gadget Gateway.
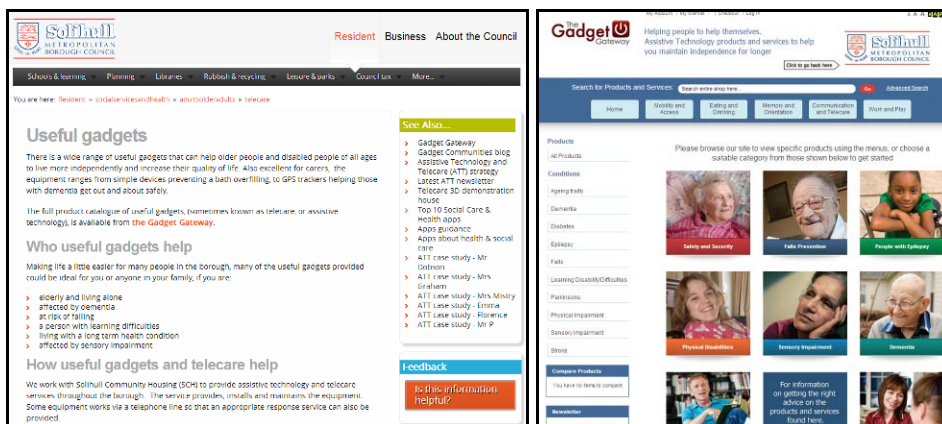
(liv) Health workers at the London North West Healthcare NHS Trust are being supplied with mobile devices so they can spend less time in the office and more time in the field caring for patients.
The Trust is working with Vodafone to allow district nurses to update patient records and view daily visiting schedules remotely, reducing the amount of time spent travelling and filing paperwork.
The new system is powered by Total Mobile's healthcare application, which works on a variety of mobile devices and platforms, and is integrated with RiO, the Trust's patient record platform.

(lv) Obese young people could be shortening their lives by more than eight years and storing up a future of ill health, scientists have warned. Experts at McGill University, in Canada, calculated the

risk of death from conditions like Type 2 diabetes and heart disease, which are associated with being overweight and obese. (Telegraph article).

(lvi) According to research at Oxford University, Type 1 diabetes could, in future, be diagnosed with a simple breath test.

(lvii) 'I'm Still Me: a narrative for coordinated support for older people' has been published by National Voices and sets out how coordinated – or integrated – care and support looks and feels to older people and is written from their point of view.


(lviii) New guidance from NICE:

- NICE recommends self-monitoring tests for people on long-term anticoagulation therapy
- Type 1 Diabetes (update) Guidance and guidelines - NICE

(lix) Could UK Ambulance services benefit from a further investment in technology? – Computer World article.

(lx) 'The UK government should establish an expert technology ethics body to help address complex challenges, including health monitoring, autonomous vehicles and legal disputes such as the right to be forgotten', an independent review has recommended. The ethical body, which would be similar to those in medicine and academia, is just one of a number of wide-ranging recommendations in the Making Digital Government Work for Everyone review which explores how technology and digital services could be better used to help citizens (Guardian article).

(lxi) A joint project involving a team of psychologists and computer scientists at the University of Bath is assessing how the brain can use sensory substitution to help blind and partially sighted people to "see". The team has been testing a technology called 'The vOICe' which works by translating images from a camera built into a visor into highly complex 'soundscapes'. (Guardian article).
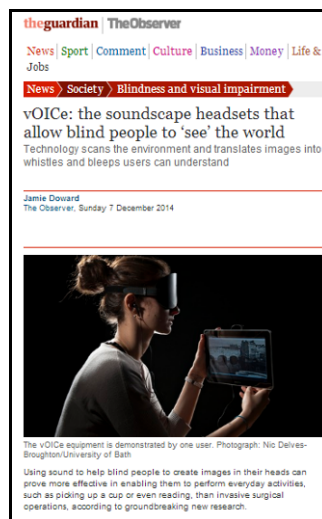
(lxii) An American company has created the Pavlok - an electric shock wristband that has been designed to try and change bad habits (Telegraph article).

(lxiii) Coventry City Council is [launching](#) its [Telecareline](#) service by creating a mock lounge in the Council House to demonstrate how gadgets can help people live independently at home after hospital treatment. Equipment includes fall detecting sensors, pill dispensers, devices to open and close curtains and controls to turn lights on and off. Coventry Telecareline is part of a city-wide Home First strategy which aims to help people get home quickly after hospital treatment and support them to regain their independence.

(lxiv) Patients with conditions such as heart failure, COPD and diabetes are working together with community nurses from Rotherham Doncaster and South Humber NHS Foundation Trust (RDaSH) and a Doncaster GP practice, using a new monitoring kit by Doboco. Docobo has developed a system, known as 'Care Portal' for patients to monitor their own health under the supervision of trained professionals, reducing the need for face-to-face visits ([website](#)).

(lxv) [From the Guardian](#): So can wearable tech gadgets really help us to keep our health and fitness resolutions? Although there are some merits to such devices, their potential health and fitness benefits appear to be overstated.

Also on wearables:

- [2015 will be the year wearable tech gets under the skin](#)
- [The first medical-quality wearable to help measure stress, epileptic seizures, activity and sleep](#)
- [Hype Around Healthcare Wearables Runs Into Reality](#)
- [Make the Data From Wearable Devices More Relevant](#)
- [Next Fitness Trackers Will Be Printed on Clothes](#)
- [Wearable Data: The Doubled-Edged Sword Of The Mobile Revolution](#)
- [Wearable health monitors not quite there yet](#)
- [Wearable Technology And Digital Healthcare Strategies Should Shift Focus To Chronic Medical Illness](#)
- [Wearable technology to be looked at for handling e-health data in the mainstream](#)

(lxvi) [From Scope](#) - Technology can open doors for disabled people.

(lxvii) Colin Angel from UKHCA looks at 'What does the Care Act mean for homecare providers'? ([Guardian article](#)).

(lxviii) A text messaging service, which involved heart patients has reduced the numbers who forgot or just stopped taking their pills. One in six was helped to continue their treatment, reducing their risk of heart attack and stroke. It has been estimated that the NHS spends more than £500m on wasted medicines and avoidable illness ([BBC News Article](#)).

(lxix) Why aren't we making more of a fuss about our private data – asks Ben Goldacre in a Guardian article - When data gets creepy: the secrets we don't realise we're giving away.

(lxx) MobiHealthNews has been tracking FDA clearances for smartphone-connected medical devices and standalone apps for many years - about two dozen digital health-related FDA clearances have been secured in 2014. In a US survey, 90 percent of consumers want some government oversight on health apps.

Also of interest:

- Apps as Artefacts: Towards a Critical Perspective on Mobile Health and Medical Apps
- Are we overhyping mHealth?

(lxxi) Interested in the Integrated Digital Care Record and Open Source Programme? – join the NHS Technology Community for updates and discussion.
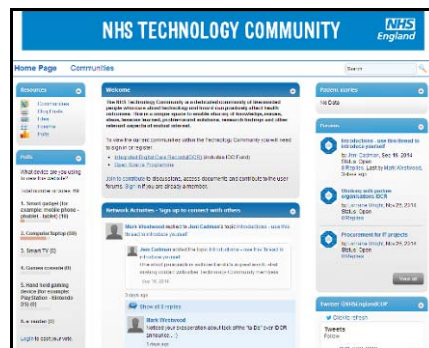
(lxxii) IRISS has a new feature called 'Imagining the Future of support and social services in 2025' and looks at four scenarios.

(lxxiii) Developed by the Health Design & Technology Institute (HDTI) and the Centre for Excellence in Learning Enhancement (CELE) at Coventry University, the Fallcheck app is based on information from occupational therapists and falls experts in the United Kingdom. The app provides a comprehensive guide to alert you to potential fall hazards. Information on how to remove or reduce the risk to help prevent falls is provided by the app. The project was funded by NHS West Midlands.
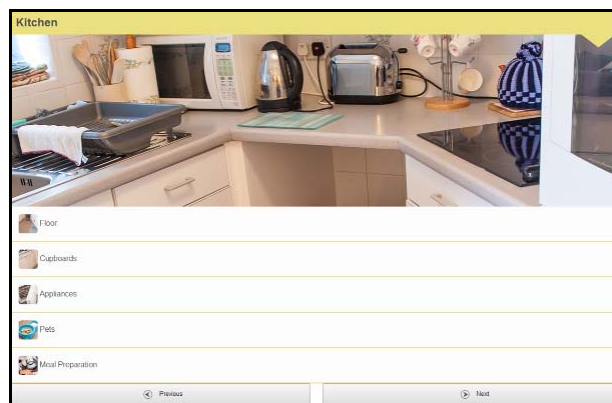
(lxxiv) In a U.S. survey, 22 percent of large U.S. companies (1,000 employees or more) provide access to telehealth programs to those in their employ. Big companies appear to see the value of providing lower-cost telemedicine alternatives to their workforce in lieu of more expensive in-office consults and/or in-hospital, emergency room visits.

Also:

- Companies can now opt for wearables as part of a corporate wellness program
- Workplace Wellness Produces No Savings

(lxxv) From the U.S.: Doctor on Demand is hiring 300 psychologists and psychiatrists across the country to provide a host of behavioral health services, augmenting its primary-care telemedicine offerings that patients and consumers access through its video visits across 46 states. (Med City News article). Meanwhile 50,000 eTherapi online therapists prepare to treat holiday depression through video consults (PR Web article).

(lxxvi) There is a new video from Fold Telecare in Northern Ireland.

(lxxvii) At the end of the year, it's time for predictions for the new year – many of which will no doubt appear at the annual CES show.

- Forget smart watches and glasses, smart clothing will be the hottest trend of 2015
- Four Predictions for 2015 - A Mixture of New and Old Shifts
- For wearable tech vendors, CES 2015 begins the fight against Apple Watch
- Where your tech focus should be in 2015
- Why 2 app evangelists say 2015 will be a tipping point for doctors prescribing apps

(lxxix) Where are the best countries to grow old? – Quartz has an article on the Global AgeWatch Index.

(lxxx) Medical xpress has an article on Improving dementia care with patient-focused apps. The apps, developed through the EU-funded MIRROR project, have been designed to enable workers in residential homes to be more creative and effective in delivering person-centred care. (MIRROR Project - website).

(lxxxi) 'Many of Kaiser Permanente's regional systems are already performing greater than 50% of visits virtually—through mobile, or secure messaging, or video', Jamie Ferguson, the system's vice president of health IT strategy and policy, said recently. Virtual visits have grown from 4.1 million in 2008 to about 10.5 million by 2013 in KP Northern California.

(lxxxii) The use of retail health kiosks by US health providers continues:

- [Fast-growing telehealth kiosk maker HealthSpot raising $6M](#)
- [Florida Blue to Offer HealthSpot's Telehealth Kiosks in Miami](#)
- [How Walgreen Is Offering Customers Telemedicine](#)
- [Kaiser expands clinic services to Target stores](#)
- [Kaiser-Target Partnership Another Step in 'Retailization' of Health Care](#)
- [Mayo Clinic extends telemedicine tests to Austin kiosks](#)
- [Walgreens Joins MDLive To Access Doctors Via Telehealth](#)
- [Xerox makes strategic investment in kiosk company HealthSpot](#)

(lxxxiii) As well as London, [Digital Catapults](#) (supported by Innovate UK) are also opening in Brighton, Bradford and Sunderland. Computer Weekly [looks](#) at six startup at the forefront of data innovation.

(lxxxiv) [From Med City News](#): A New Jersey hospital is opening a storefront in its lobby based on the Apple Genius Bar to help patients use health apps and other digital technologies to manage their personal care.
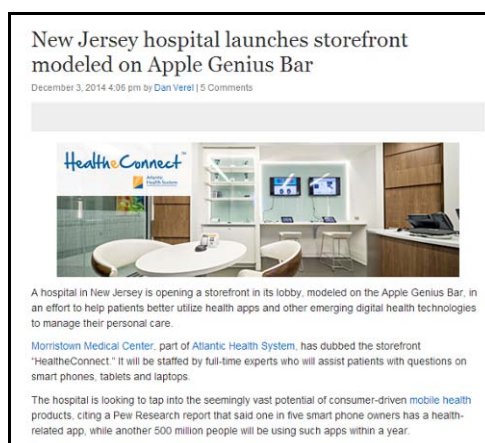
(lxxxv) Omron and AliveCor are partnering to bring smartphone ECG to retail locations ([Mobihealthnews article](#)).

(lxxxvi) [Medtech startup Outcomes Based Healthcare](#) (OBH) has teamed up with the [Big Data Partnership](#) on a £1m diabetes project. A match-funded grant has been secured from [Innovate UK](#) to fund the project which will be bring a much more data-driven approach to traditional medical research. The partnership will use medical data about type-2 diabetics combined with non-health data about the same individuals such as income to predict the outcomes of a patient's illness well in advance of what is currently possible. ([Tech City News article](#)).

(lxxxvii) From Australia: Telehealth: the general practice perspective ([AFP article](#)).

(lxxxviii) Samsung could be looking beyond fitness into chronic disease management for S Health – [Mobihealthnews article](#).

(lxxxix) Barco has [announced](#) that it has been selected by the Shandong Provincial Hospital group to implement a comprehensive telemedicine system across 204 hospitals and clinics in China's Shandong province.

(xc) Interested in using Skype for consultations? Latest news on the application:

- [SystmOne now integrated with Skype](#)
- [Skype now lets you videocall while doing other things on Android](#)
- [Skype users to get real-time language translating tool](#)

(xci) As online doctor visits become more popular in the U.S., here are some recent articles:

- [Video visits blocked despite doctor shortage](#)
- [Video: DocChat See a Doctor in 15 Minutes Guaranteed Telemedicine App](#)
- [Virtual Doctor App Currently Being Tested by Walgreens](#)
- [Virtual Doctor Visits: Can You Trust Online Medicine?](#)

(xcii) Healthcare businesses from across the region have been [honoured](#) at the recent Medilink Yorkshire and Humber Awards 2014.

[V-Connect](#) – one of the Medilink Y&H winners.

(xciii) 11 Genomics Medicine Centres are being set up across the UK as part of the 100k Genome Project (BBC News article).

(xciv) 'More than 80,000 people a year in the UK could be saved from dementia by lifestyle changes to protect the brain', according to a major global report to be presented at the World Innovation Summit for Health in Doha in February 2015. Lord Darzi suggests that individuals should adopt a "use it or lose it" attitude to their brains as a working group prepares to publish the study which suggests 3 million cases of dementia could be avoided in Britain by 2040 by lifestyle changes. (Telegraph article).

(xcv) Don't forget to catch up with the latest news (December 2014) from Housing LIN.

Under the Care Act there is a requirement for closer cooperation of services that support the health and wellbeing of those who may be in need of care and support. An emphasis is placed on greater integration between health and social services to deliver more person-centred outcomes. As part of a drive for more integration, a pioneering Health and Housing Memorandum of Understanding (MoU) between government departments, its agencies such NHS England, Public Health England and the Homes and Communities Agency, has been signed by sector professional and trade bodies and leading learning networks, including the Housing LIN. Under the MoU and its accompanying Action Plan, the Housing LIN is responsible for taking the lead in exemplifying relevant policies, tools and examples of practice.

Item 8 – Summary list of recent journal articles and evaluations

Each month, our supplement (pdf, doc) provides a comprehensive list of recent journal articles. Here are a few important links from this month's long list:

A review of paediatric telehealth for pre- and post-operative surgical patients
A systematic review of telehealth tools and interventions to support family caregivers
Barriers and facilitators to using NHS Direct: a qualitative study of users and non-users
Dr google and the consumer: a qualitative study exploring the navigational needs and online health information-seeking behaviors of consumers with chronic health conditions
Effect of telemedicine follow-up care of leg and foot ulcers: a systematic review
E-Health and Telemedicine: Current State and Future Steps
Impact of Diabetes E-Consults on Outpatient Clinic Workflow

Implementing a telehealth service: nurses' perceptions and experiences
Mobile health technology and the use of health-related mobile applications
Professional perspectives on systemic barriers to admission avoidance: learning from a system dynamics study of older people's admission pathways
Randomised Trial of Text Messaging on Adherence to Cardiovascular Preventive Treatment (INTERACT Trial)
Telemedicine system for the care of patients with neuromuscular disease and chronic respiratory failure
Telemedicine, the effect of nurse-initiated telephone follow up, on health status and health-care utilization in COPD patients: A randomized trial
Telephone Cognitive-Behavioral Therapy for Adolescents With Obsessive-Compulsive Disorder: A Randomized Controlled Non-inferiority Trial
The remote exercise monitoring trial for exercise-based cardiac rehabilitation (REMOTE-CR): a randomised controlled trial protocol
Understanding the acceptability of e-mental health - attitudes and expectations towards computerised self-help treatments for mental health problems
Effectiveness of telemedicine applications for weight management : a meta-analysis of randomized controlled trials
Effectiveness of Telemedicine: Videoconferencing for Low-Income Elderly with Hypertension
Study: Telemedicine Could Reduce PTSD Severity for Rural Veterans
Tele-Health Pulmonary Rehabilitation: Lessons from Alberta
Text Messages Can Increase Compliance With Taking Medications, Study Finds

Item 9 – Learning and Events

Click on the links below for conferences and learning events over the coming months.

January 2015

A third DHACA day has been set for 29 January 2015. Tickets are now available at https://www.eventbrite.co.uk/e/dhaca-day-iii-tickets-13482595807

February 2015

BioTech and Money London - 3-4 February 2014 Click here for more information

Digital Health Assembly - Open Innovation Conference, 10-12 February 2014, Swansea
http://www.digitalhealthassembly.com/

RE.WORK Future Health Summit : 12-13 February 2015, Dublin For more information and to register

Recent developments in digital health 26 February 2015, London www.rsm.ac.uk/events/tef02

March 2015

The future for health technologies: innovation, funding and regulation – 18 March 2015, London
http://www.westminsterforumprojects.co.uk/forums/event.php?eid=919

The 15th International Conference for Integrated Care "Complex Needs, Integrated Solutions: Engaging, empowering and enabling people for active and healthy living" is to take place at the Sheraton Grand Hotel, Edinburgh, Scotland, 25-27 March 2015.

April 2015

Playing games, using apps, promoting wellbeing 9 April 2015, London, www.rsm.ac.uk/events/tef03

Holyrood Telehealth and Telecare 2015 Glasgow, 28-29 April 2015
http://telehealthcare.holyrood.com/

Med-Tech Innovation Expo 29-30 April 2015, Coventry http://www.mtiexpo-uk.com/

June 2015

International Digital Health and Care Congress – The King's Fund 16/17 June 2015 –
http://www.kingsfund.org.uk/events/digital-health-and-care-congress-2015

Item 10 – Other useful links

Assisted Living Innovation Platform - https://connect.innovateuk.org/web/assisted-living-innovation-platform-alip

dallas_Connect Sub Group - Join the Sub Group at: https://ktn.innovateuk.org/web/dallas

Housing Learning and Improvement Network www.housinglin.org.uk Now on Twitter: @HousingLIN

Telecare Learning and Improvement Network www.telecarelin.org.uk

King's Fund web site – http://www.kingsfund.org.uk/topics/technology_and_telecare/index.html

Telehealth and Telecare Aware – daily news and comments www.telecareaware.com

Newsletter prepared by Mike Clark (@clarkmike) and brought to you by the Telecare LIN on behalf of Innovate UK and Healthcare KTN.

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www.alip-healthktn.org

Technology Strategy Board
Driving Innovation