



Telecare LIN

Connecting you with digital health & care innovation

January 2018 Newsletter

Welcome

Welcome to the January 2018 newsletter from the Telecare Learning and Improvement Network.

Our news service has been available since October 2005. From January 2016 we are now back with a monthly Telecare LIN roundup together with daily news via Twitter (follow @clarkmike).

As in the past, we will be continuing to bring you an extensive curated listing of digital health and technology enabled care references from the UK and around the world including telehealth, telecare, mobile health, telemedicine, ehealth, smart home technologies and Internet of Things. We will also be including more in the future on health informatics (including electronic health and care records), big data, artificial intelligence as well as health and care robotics.

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Main News Links

1.1 Telecare, Telehealth, Mobile & Digital Health, Telemedicine

Randomized controlled pilot study of an educational video plus telecare for the early outpatient management of musculoskeletal pain among older emergency department patients - via [Study](#)

Chengdu High-Tech Industrial Development Zone has committed to investment of almost €300M to deploy a telecare solution in China's 20 biggest cities, following a one-year, 1500-person trial in 2018 - via [sigfox](#)

NEW CASE STUDY: Tunstall Healthcare, @ProgressHG and @LancashireCC have collaborated to make greater use of care services in #Lancashire by introducing #telecare to prisons to help meet the care and support needs of prisoners - <http://bit.ly/2rdGZkK>

NHS Liverpool CCG awards £11.5m telehealth contract - via [BJHC news](#)

Alexa and Medical Practices - discussion - via [ehrandhit](#)

Digital and Personal Connected Health: Hospitals share strategies for success as digital technologies hit the mainstream - via [MobiHealthNews](#)

Study: Passive sensor data collected from smartphones and Fitbits linked to severity of chemotherapy symptoms - via [MobiHealthNews](#)

Transforming healthcare through technology will increase buy-in from staff, patients - via [MobiHealthNews](#)

Knowsley to use behavioural insights for assistive tech - Council receives backing from LGA for project using behavioural science to get more people using assistive care devices at home - via [UKAuthority](#)

Smartphones can safeguard your health in some surprising ways - Data collected by your device could soon spot medical and psychological problems before you do - via [NBCNewsMACH](#)

Turning to telemedicine for prisoners' mental health treatment - via [modrnhealthcr](#)

To catch Apple, Fitbit invests in a company that makes a small patch to track blood sugar for diabetics - via [CNBC](#)

Digital Health at #CES2018 - via [CTATech](#)

Study: Exploring factors associated with the uneven utilization of telemedicine in Norway: a mixed methods study - via [Study](#)

The UK's National Health Service will reimburse physicians who prescribe a wearable mHealth device to help patients manage chronic pain - via [mHealthIntel](#)

Mobile health app numbers almost doubled in the two years from 2015 to exceed 318,500, with more than 200 new apps launched every day, according to a new report - via [PMLiVEcom](#)

Regulator to rate GP app providers from this year - via [HSJnews \(£ subs\)](#)

Study: Patient self-audits through mobile app match traditional evaluations - via [MobiHealthNews](#)

Intermountain researchers build app to keep tabs on advanced heart failure patients - via [MobiHealthNews](#)

Alder Hey Children's NHS Foundation Trust introduces children's app - via [digitalhealth2](#)

NYT, Bloomberg say Apple is working on Watch EKG, noninvasive glucose - via [MobiHealthNews](#)

224 digital health funding deals in 2017 - via [MobiHealthNews](#)

New FDA Guidance Clarifies Exemptions for Digital Health Software - via [JDSupra](#)

Newest mHealth Intervention for Smokers Combines Apps, Wearables - via [mHealthIntel](#)

NHS hospitals told to take drastic measures amid winter crisis - Cancelling appointments and non-urgent surgery ban are options as hospitals reel under most intense pressure in decades - via [guardian](#)

5 Big Telehealth Developments in 2017 - via [HCA News](#)

Alder Hey launches children's hospital app - via [health1tech](#)

GDPR and the NHS Digital Academy: Digital Health's predictions for 2018 - via [digitalhealth2](#)

Potentially life-saving health monitor technology - Wearable monitor to detect heart and breathing abnormalities in babies - via [ScienceDaily](#)

From the U.S.: Telemedicine's market momentum prompts vendors to expand, connect with larger patient populations - via [HealthITNews](#)

VA has awarded \$260m contract to launch telehealth & telemedicine platform capable of connecting its doctors to patients no matter where they live, while enabling veterans to transmit mHealth data from devices in their homes - via [mHealthIntel](#)

GE Healthcare and Roche to develop new digital health solutions - via [ZenopaLtd](#)

Predictions for #digitalhealth in 2018 - via [BJHC news](#)



Weight Loss Success Linked to Telehealth Coaching, mHealth Devices - via [mHealthIntel](#)

Get healthy at the St Helens digital health kiosk - via [sthelensreport](#)

Nine case studies from organisations using the Quality Standards Framework from @TSAVoice for #TECS and #digitalhealth - via [TSA](#)

Three digital health companies weigh in on value-based care and policy - via [medcitynews](#)

Digital Health Intelligence research shows a growing number of NHS trusts see cloud as their next big IT project - via [digitalhealth2](#)

From the U.S.: Making Telehealth a Valuable Part of Preventive Care Programs - via [mHealthIntel](#)

NHS supports budding entrepreneurs developing voice-recognition app for tackling blood disease - via [NHSEngland](#)

#CES2018: Running list of digital health products - via [MobiHealthNews](#)

Study: Telemedicine combined with in-school care could help kids manage asthma - via [MobiHealthNews](#)

Pain management app Manage My Pain deployed in four Ontario clinics - via [MobiHealthNews](#)

From the U.S.: Telemedicine program reduces ER visits for students with asthma - via [HDMmagazine](#)

From the U.S.: Telemedicine Lowers Wait-Time for Rural Health Care - via [AgWebEditor](#)

97 Texas schools have telehealth kiosks connecting sick students with doctors/nurses - last week, they diagnosed dozens of students with flu - can order the flu test and have answer in 10 mins, just like in the doctor's office - via [NBCDFW](#)

HIMSS18 Patient Engagement and Experience Summit: New strategies for precision medicine, telehealth, social determinants - via [MobiHealthNews](#)

CQC to be given power to rate online GP consultations - via [digitalhealth2](#)

Start-up companies encouraged to apply for Early Stage Opportunity Fund - innovative services in telehealth and care, mobile health, health analytics and digitalised health systems - via [digitalhealth2](#)

From the U.S.: Can This App That Lets You Sell Your Health Data Cut Your Health Costs? - via [FastCompany](#)

Mayo Clinic: Telehealth - Technology meets health care - See how technology can improve your health care - via [MayoClinic](#)



Amazon releases Alexa developer kit for wearable devices - via [ZDNet](#)

American Well and Philips bring technology and telehealth together in new partnership - via [medcitynews](#)

A modular approach to tech solutions supported by credible standards provides way forward for a better integration of care, writes Tim Gregson, CTO at Microsoft - via [UKAuthority](#)

1.2 Smart Home Technologies & Internet of Things

CES 2018: Tech preview of the show's coolest new products - via [BBCNews](#)

Amazon's Echo Buttons are just the start – more form factors to launch this year - via [TechCrunch](#)

Toyota will offer Alexa in its cars starting later this year - via [TechCrunch](#)

Sony launches a bunch of new headphones and adds Google Assistant functionality to the line - via [TechCrunch](#)

Ford taps Qualcomm to ensure cars can talk to everything else - via [TechCrunch](#)

Alexa is coming to wearable devices, including headphones, smartwatches and fitness trackers - via [TechCrunch](#)

Driverless pods, smart sensors, and citizen apps – inside the plan to future-proof Milton Keynes - via [PublicTech](#)

Smart speakers top AR, VR and wearables to become fastest-growing consumer tech - via [TechCrunch](#)

Introducing The Ambient - our new sister smart home site - via [wareable](#)

The light and dark of AI-powered smartphones - via [TechCrunch](#)

How smart speakers stole the show from smartphones - via [guardian](#)

39 million Americans now own a smart speaker, report claims - via [TechCrunch](#)

#CES2018: voice-controlled showers, non-compliant robots and smart toilets - via [guardian](#)

At #CES2018, Amazon Is Beating Google In The Smart Home Battle - via [Forbes](#)

Comcast launched free voice-controlled connected home services for Xfinity users - research estimates that by 2020 the more tech savvy among us could have up to 50 connected devices on average in our homes - via [TechCrunch](#)

Google's assistant now works on smart speakers with screens - via [cnntech](#)

EZVIZ's 'Lookout Smart Door Viewer' turns a peephole into a smart video doorbell with facial recognition - via [TechCrunch](#)

These \$1,000, Alexa-enabled smart glasses feel like the first fully baked AR product since the failure of Google Glass - by Nick Statt - via [verge](#)

H2020 creative workshop: Adaptive smart working and living environments supporting active and healthy ageing - 25 January, Brussels - via [innovateuk](#)

Google launches smart displays with JBL, Lenovo, LG and Sony - via [TechCrunch](#)

Cybersecurity: By the end of this year, there will be more than eight billion internet of things (IoT) devices connected worldwide, according to analysts Gartner – from electricity meters to smart fridges - via [Telegraph](#)

Google to launch smart speakers with touchscreens - via [Telegraph](#)

iHome debuts a Google Assistant-powered clock radio, the iGV1 - via [TechCrunch](#)

1.3 Health Tech

Apple says almost all its devices are affected by the Spectre and Meltdown bugs - Apple watches not affected - via [Independent](#)

VC firm announces €280m injection for European healthcare tech - via [digitalhealth2](#)

Patient app 'saves thousands of nursing hours - via [SkyNews](#)

First major phase of Berkshire's shared care record goes live - via [digitalhealth2](#)

Netatmo launches a chatbot to manage all your connected devices - via [TechCrunch](#)

Meltdown and Spectre: 'worst ever' CPU bugs affect virtually all computers - via [guardian](#)

Record numbers turn to NHS 111 as hospitals struggle - via [BBCNews](#)

From Scotland - Polly Purvis: The tech trends that will dominate 2018 - via [TheScotsman](#)

Tech companies are investing heavily in healthcare. In 2018 one or more will buy a healthcare provider and turbocharge their efforts, says John Loder - via [nesta_uk](#)

CB Insights : Where Big Tech Is Placing Bets In Healthcare - via [lloydgprice](#)

Brain-computer interfaces could change the way people think, soldiers fight and Alzheimer's is treated. But are we in control of the ethical ramifications? - via [guardian](#)

FDA chief: I'm surprised it took big tech this long to get into health care - by @chrissyfarr - via [CNBC](#)

Voice interfaces beginning to find their way into business - via [TechCrunch](#)

Skype adds e2e encrypted 'private chats' powered by Signal Protocol - via [TechCrunch](#)

1.4 Robotics, AI and VR

AI could have 'immense' benefits for NHS, says tech committee chair - via [Independent](#)

ElliQ has raised \$22 million for its social robot aimed at older adults - via [TechCrunch](#)

From finicky robots to a not-so-smart suitcase, this year's Consumer Electronics Show found an industry out of touch with the problems it really needs to solve - via [guardian](#)

Nvidia reveals new AI platforms for smart assistants and AR in the car - via [TechCrunch](#)

A mobile health coach that uses artificial intelligence to provide chronic disease management support can deliver effective interventions for at-risk diabetes patients - via [HITAnalytics](#)

Just the beginning: 6 applications for machine learning in radiology beyond image interpretation - via [RadiologyBiz](#)

Robotic surgeons have started to be used at Barts Health NHS trust after receiving multi-million pound funding - via [digitalhealth2](#)

A collaborative research team has designed a wearable robot to support a person's hip joint while walking - via [ScienceDaily](#)

Machine learning software piques interest of NHS trusts - via [digitalhealth2](#)

Familiar with Telemedicine? Mayo Clinic is Taking Next Step with New Robotic 'Telestenting' Procedure - via [TCBmag](#)

Fitbit has invested \$6 million in glucose-monitoring startup Sano - via [verge](#)

Mass closure of NHS walk-in centres is fuelling winter crisis, claim campaigners - via [guardian](#)

The NHS is under threat. Only a new model of care will save it - by Kailash Chand - via [guardian](#)

Robots could replace more jobs as living wage rises, says IFS - via [SkyNews](#)

16,900 people – the highest number this winter – were stuck in the back of an ambulance waiting to enter an A&E unit to be assessed and treated in the week from Christmas Day to New Year's Eve - via [guardian](#)

Afraid of Falling? For Older Adults, the Dutch Have a Cure - via [nytimes](#)

Study: 'Artificial pancreas' could help youth with diabetes participate in intense activities - via [MobiHealthNews](#)



Canadian government recently signed a contract with Ottawa-based AI firm Advanced Symbolics to monitor social media posts for suicidal behavior - via [MobiHealthNews](#)

Preclinical Mayo Clinic study to investigate off-site, robotic-assisted coronary procedures - via [MobiHealthNews](#)

Doctors and patients accuse government of failing to stop NHS crisis - At least 21 trusts are on black alert, meaning they cannot guarantee patient safety or provide full range of services - via [guardian](#)

AI early diagnosis could save heart and cancer patients - via [BBCNews](#)

The NHS turns 70 this year, and it's Britain's greatest medical innovation - Bruce Keogh - via [guardian](#)

Callers complain of 40-minute waits as NHS 24 hot line in Scotland has busiest ever festive period - via [Telegraph](#)

Increasing numbers of European Union-trained ambulance staff are quitting the NHS, raising fears of a Brexit drain from the 999 service just as concern over slow response times grows - via [guardian](#)

New 'emotional' robots aim to read human feelings - via [ABSCBNNews](#)

Experts from Cedars-Sinai, CVS Health, Blue Cross NC and Harvard Pilgrim Health Care discuss where value-based care is headed in 2018 and beyond - via [HealthITNews](#)

At CES, every robot meant to interact with humans either doesn't work or only does pointless things - via [Slate](#)

Sony Planning a Whole Range of Robots After Its Aibo Dog - via [business](#)

Thinking on its own: AI in the NHS - via [reformthinktank](#)

Reflexion Health's virtual platform to power non-profit's senior rehabilitation program - via [MobiHealthNews](#)

Waits in A&E during December in England were the worst since the target was introduced in 2004, figures show - via [BBCNews](#)

Is artificial intelligence the United Kingdom's productivity solution? - via [InformationAge](#)

Intuition Robotics showed off a new robot at #CES2018 that's specifically designed for the elderly by @robotodd - via [CNBC](#)

As well as overseeing the NHS's 70th birthday celebrations, the health and social care secretary will take charge of long-awaited reform - by @DavidJ_Brindle - via [guardian](#)

#CES2018: When will AI deliver for humans? - via [BBCNews](#)



Robot duck's aim: Helps kids with cancer via power of play - via [physorg.com](#)

Why robots should 'report to' HR - via [personneltoday](#)

CES 2018: A clunky chat with Sophia the robot - via [BBCNews](#)

Switch Brexit billions into AI to transform UK health and social care says Colin Cram - via [guardian](#)

1.5 Policy, guidance, announcements, miscellaneous

Google has planted its flag at #CES2018 - via [TechCrunch](#)

Now Alexa can help you microwave dinner - via [TechCrunch](#)

Tencent, the \$500bn Chinese tech firm you may never have heard of - It's overtaken Facebook, bought stakes in Snapchat, Tesla and Hollywood films, and has quietly risen to rival Google and Netflix - via [guardian](#)

The Tech Trends From CES 2018 That Will Actually Matter - via [lifehacker](#)

Forget the Alexa-powered toasters at CES, these innovations will really shape 2018 - via [TechCrunch](#)

Google launches a new directory to help you discover Assistant actions - Google says you can now perform more than a million actions with the Google Assistant - via [TechCrunch](#)

Four in 10 local government websites are not accessible to people with disabilities, including those using assistive technologies, according to the latest survey under the Better Connected programme - via [UKAuthority](#)

Toyota teams up with Uber, Amazon, Pizza Hut and more on mobility services - via [TechCrunch](#)

Report by industry analysts shows that in the last decade, 929 care homes for 31,201 people have closed, at a time when the population is ageing rapidly - via [Telegraph](#)

Shifting care closer to home will ease pressure on hospitals - by @ewardking - via [guardian](#)

Patients missing their appointments cost the NHS £1bn last year - via [guardian](#)

US firm Voyage will start rolling out self-driving taxis at The Villages, a Florida community which is home to 125,000 senior residents - they will be able to summon a self-driving car using a mobile app - via [BBCNews](#)

Middle-aged can reverse heart risk with exercise, study suggests - via [BBCNews](#)

We need to talk about doing social care differently by @PaulBurstow - via [guardian](#)



Royal Commission overhaul could hand the NHS an extra £5.6 billion from shake-up - via [Telegraph](#)

The news and highlights to expect from CES 2018 - via [WIRED](#)

How to save the NHS: experts offer their big ideas - via [guardian](#)

What will it take for the government to confront pressures on the NHS? by @RichardVize - via [guardian](#)

The Government did not adequately prepare NHS for winter, says former Tory health secretary - via [Independent](#)

NHS crisis: Adult patients put on children's wards as trusts struggle for space over winter - via [Independent](#)

The AR Cloud Will Be Bigger Than Search - via [Forbes](#)

A brave and bold new world: my vision for social care by @vicrayner - via [guardian](#)

10 charts that show why the NHS is in trouble - via [BBCNews](#)

Nurses leave packed A&E units to treat patients in ambulances - via [guardian](#)

What Fitbit's 6 billion nights of sleep data reveals about us - via [YahooFinance](#)

NHS winter crisis should prompt government to fully fund social care, warn councils - via [LGAcomms](#)

Adrian Boyle and Ian Higginson: This A+E crisis was entirely predictable and partly preventable - via [bmj_latest](#)

Hospital admissions for flu triple and 111 phonenumber overwhelmed by deepening NHS crisis - via [Telegraph](#)

NHS Digital welcomes introduction of CQC's new rating system for digital GP tools - via [NHSDigital](#)

Dementia - assessment, management and support for people living with dementia and their carers: Draft guidance consultation - closing date 13 Feb 2018 - via [NICEcomms](#)

Social care in 2018: time to think about the future workforce - via [guardian](#)

Fifty-one connected health products the FDA cleared in 2017 - via [MobiHealthNews](#)

From the U.S.: No link between in-patient portal use and 30-day readmissions, study finds - via [MobiHealthNews](#)

Scientists have unveiled the first bionic hand with a sense of touch that can be worn outside the laboratory - via [BBCNews](#)

Scotland changing health and social care and the world is taking notice - via [TheScotsman](#)

Healthcare websites and other non-NHS services to be awarded quality ratings for the first time by CQC - via [CareQualityComm](#)

Local government spending on public health: death by a thousand cuts - via [TheKingsFund](#)

The University of Manchester spin-out behind a medical device to detect life threatening infections will kick off its first clinical trial following a £1.4m investment boost - via [BQLive](#)

Why Chatbots are the Future of Conversational Intelligence | Analytics Insight - via [analyticsonme](#)

NHS crisis: Jeremy Hunt apologises to patients as thousands of non-urgent operations postponed - via [Independent](#)

Why the U.S. Spends So Much More Than Other Nations on Health Care - via [nytimes](#)

Five things for public sector digital in 2018 - via [UKAuthority](#)

NHS operations deferred throughout January - via [BBCNews](#)

The compact between the public and the NHS - via [TheKingsFund](#)

Round up of @SCTT_NHS24 activities in Scotland in 2017 - via [SCTT](#)

'Intelligent toothbrush' could detect deadly heart problems - via [Telegraph](#)

NHS winter pressure: Hospitals report 99 per cent capacity over festive period as flu season looms - via [Independent](#)

'Desperate times' for overcrowded hospitals, senior doctor warns - via [guardian](#)

NHS shake-up is not a Trojan horse for privatisation, says top doctor - via [guardian](#)

The real reason health care is bankrupting America - via [CNBC](#)

Will a rebranded Department of Health change anything? - via [BBCNews](#)

Ambulances queuing up outside A&E, operations cancelled for lack of beds...Could this winter prove the last straw for our struggling National Health Service? Those on the frontline speak out... - via [guardian](#)

Unlicensed online therapists 'preying' on desperation of people with mental health problems as NHS struggles to meet rising demand, experts warn - via [Independent](#)

From the U.S.: CDC looks to bring its clinical guidance into the digital age - via [FierceHealth](#)



NHS Liverpool Clinical Commissioning Group picks Docobo to expand its service to 4-5,000 patients a year over the next three years - via [DocoboUK](#)

Innovating our way to a new 'business as usual' by @PaulBurstow - via [HSJnews \(£ subs\)](#)

A royal commission is not the way to solve the problems facing the NHS, by @RichardVize - via [guardian](#)

Roche and GE Healthcare plan 'industry first' digital platform - via [PMLiVEcom](#)

The Guardian view on the NHS crisis - there is no mistaking the depth of the crisis faced by the health service. But how much are we prepared to pay, who will pay it – and what exactly will it buy? - via [guardian](#)

The winter crisis reached a new peak last week as NHS trusts had to provide 5,075 extra beds on 2 January to cope with demand, the equivalent of nine average hospitals - via [guardian](#)

Health Care Just Became the U.S.'s Largest Employer - via [TheAtlantic](#)

A&E chiefs from 60 hospitals warn patients are dying amid 'intolerable' safety risks, in letter to Theresa May - via [Telegraph](#)

The winter crisis has left the NHS running on empty – it needs a fix, now says Chris Hopson - via [guardian](#)

Number of A&E patients being treated within four-hour target has reached its lowest ever level, with hospitals managing to care for just 77.3% of patients within that time last month – far fewer than the 95% target - via [guardian](#)

New ingestible sensor could help researchers learn more about the gut - via [MobiHealthNews](#)

From the U.S.: Heal releases diagnostic health data integration platform, Wellbe - via [MobiHealthNews](#)

Time for an answer on the NHS? - by @bbclaurak - via [BBCNews](#)

NHS 'no longer able to meet standards in its constitution', health bosses tell Jeremy Hunt - via [Independent](#)

Jeremy Hunt urged to boost NHS budget as flu crisis marks 'watershed moment' for health service - via [Telegraph](#)

Hospitals have run out of beds and can no longer cope, bosses are warning - via [BBCNews](#)

Jeremy Hunt admits NHS needs more money - via [guardian](#)

We need a new care deal to tackle the challenges of an ageing population - by Joel Charles - via [guardian](#)

From red bag to green paper: innovation in adult social care - by @blimeysimon - via



[SCIE socialcare](#)

Growing innovative models of health, care and support for adults - via [SCIE socialcare](#)

#CES2018: Amazon Alexa v Google Assistant fight gets fierce - via [BBCNews](#)

How vanguards are increasing healthy life expectancy in Nottinghamshire - via [nhsconfed](#)

CES 2018: Intel to make flawed chips safe in a week - via [BBCNews](#)

2 Learning and Events

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

European KnowledgeTree Group (EKTG) eHealth Symposium, 23/24 January 2018
https://docs.wixstatic.com/ugd/13b480_71c351c0501047949168530627d169df.pdf

Digital Health and Care Scotland 2018 – 20/21 February 2018 - Edinburgh
<http://digitalhealth.holyrood.com/about>

The Digital Health Technology Show - 13/14 March 2018, London
<https://www.eventbrite.co.uk/e/the-digital-health-technology-show-tickets-35880257817>

Digital Health and Care Congress 2018 - The Kings, Fund, London 10/11 July 2018
<https://www.kingsfund.org.uk/events/digital-health-and-care-congress-2018>

Mobile World Congress, 26 February to 1 March 2018, Barcelona
<https://www.mobileworldcongress.com/>

3 Other useful links

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

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

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

DigitalHealth.net <http://www.digitalhealth.net/>

TSA – The Voice of Technology Enabled Care <https://www.tsa-voice.org.uk/>

Newsletter prepared by Mike Clark (@clarkmike) and brought to you by the Telecare LIN

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