



Raconteur



THE TIMES

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HEALTH POLICY

Yet another NHS review, but can Labour fix healthcare?

Sir Keir Starmer's government has big ambitions in everything from energy to employment. However, the party will likely be judged on how it reforms the NHS

James Gordon

n September, Labour pub lished Lord Darzi's Independent Investigation of the NHS in England. Its findings were stark: the service is in a "critical condition", its decline driven by factors such as funding shortfalls and the Covid-19 pandemic

Lord Darzi's diagnosis of the coun try's healthcare ails has been widely accepted by industry commentators. But was another root-and-branch investigation really necessary?

Darzi's review was the third such exercise in the past decade. In October 2014 the NHS published the Five Year Forward View, which was followed in January 2019 by the NHS Long Term Plan from the Department of Health and Social Care (DHSC), in which some goals - particularly those around cancer survival – stretch to 2028.

"Lord Darzi's diagnosis contained little that was wholly new," says Tim Gardner, assistant director of policy at the Health Foundation, an independent research charity. "However, the review strengthens the case | Confederation, the membership | ingill health. for sustained investment in the body for NHS organisations, hopes health service by highlighting the it will deliver for NHS workers and consequences of a decade of under-investment and policy failures prior to Covid-19, which weakened the NHS and worsened the impact of the pandemic."

Starmer's government intends to introduce its own 10-year plan early

Mark Davan is a senior policy analyst at the Nuffield Trust who has worked in healthcare policy for more than a decade.

"Timescales as to when national health strategies start and end aren't always perfect," he says. "They are not legal documents. They should be viewed through the same lens as spending reviews, which also contain future commit ments, but operate on the understanding that the next spending review may override them.'

Darzi's review found many of the same faults as previous examinations, and some of its recommen dations will likely overlap with current initiatives. It is therefore important to understand why previous plans to fix the NHS have been unsuccessful.

According to Dayan, "continued short-termism in funding settlements, and a necessary focus on addressing immediate pressures and crises, has left the NHS unable to translate these ideas into reality.



McCay, director of policy at the NHS their communities by "listening to incorporating the many examples of

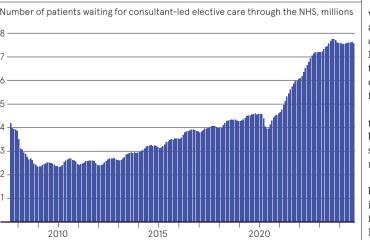
are taking place across the country". But what will this large-scale reform look like in reality? How much will it cost? And, crucially, how can the NHS ensure outstanding patient-centred outcomes?

Labour's 10-year plan will be | hospitals to community care, makunveiled in the spring. Dr Layla ing better use of technology and need to do something similar to ensuring a greater focus on prevent-

While Dayan broadly agrees with Lord Darzi's reforms, he says that shifting services from hospitals to the reality of their experiences and the community "is not necessarily and carefully considered strategy the silver bullet that will free up best practice and innovation that cash". The social care sector will centred care without waste. In Janalso need an increase in funding to meet demand.

Before any wholesale changes are introduced, Dayan says the NHS must first lay the appropriate cultural foundations, "The NHS needs The Darzi review has laid the to set objectives that are actually groundwork for a strategy that achievable rather than aspirational. Gardner says will introduce three | Staff must understand the goals and key shifts: moving more care from be involved in decision-making."

MORE THAN 7 MILLION NHS PATIENTS ARE AWAITING TREATMENT



Second, Dayan says services must be driven by data, which he believes will enable the NHS to adopt an evidence-based approach to gauge whether its initiatives are working.

Next, to really effect change, leaders at the health service must be prepared to think outside of the box. 'That could mean financial incentives, allocating grants for innovative pilot projects, or training managers to teach staff to do things differently," he says.

As for spending, Dayan says the NHS requires a funding increase of oughly 3% to 4% every year. But nplementing all of Labour's ambitions – which include cutting NHS vaiting times, doubling the number of cancer scanners, creating a new lentistry rescue plan, hiring 8,000 more mental-health staff and restor ng GP continuity of care - would cost considerably more, he adds.

How much more? The previous abour government increased fund ing by 8% each vear. Davan believes the Starmer administration "would achieve a similar outcome".

For many, including Wes Street ing, the health minister, a hike in capital investment can only be justified if the NHS adopts a clear that delivers outstanding patientuary, he told the Institute of Government that the NHS squanders £10bn each year.

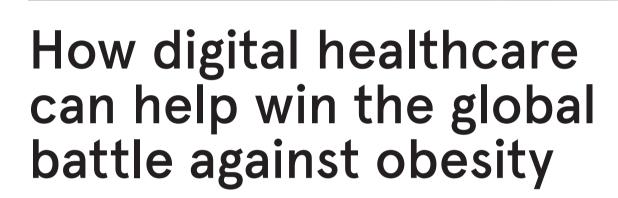
Is he right? Gardner says that com pared to health systems in other high-income countries, the NHS spends relatively little on adminis tering the system

"Many of the examples Labour has pointed to as waste are problems aused by past under-investment, where realising any savings will need further investment," he says.

As to whether Labour's reforms will enable the NHS to flourish once again, a spokesperson for the DHSC laims that the upcoming 10-Year Health Plan will "deliver fundamen al reform that will get the NHS back on its feet and build a health service

Gardner is less bullish. He believes the service "is weakened but not broken" and says staff "can recover services" if they are given the resources to make it happen.

"Reform needs to be accompanied by sustained investment and that investment needs to be sustained for the long term to transform the NHS, so all eyes now turn to next BMA, 2024 vear's Spending Review."



It's time to unbox

digital health

More than half of adults across the world are overweight or suffering from obesity, according to the World Health Organisation. But genomic sequencing and a proactive, personalised and preventative approach to treatment, delivered using digital technology, could help to solve the global obesity crisis

he world is facing an obesity | But, more worryingly, the disease is | experience an increase in BMI that's | Above: Bupa's by Imperial College London's School of Public Health revealed that the total number of children adolesworldwide has surpassed 1 billion. That's one in eight people globally.

Researchers, who gathered data from more than 190 countries, estimated that among children and adolescents, the rate of obesity in 2022 was four times higher than in 1990. In adults, rates of obesity have more than doubled in

come-country problem, obesity is now on the rise across low- and middle-income countries too. In Africa, the number of overweight children under 5 years old has increased nearly 23% since 2000. And, almost half of the children aged under 5 who were overweight or obese in 2022 lived in Asia.

These statistics are having a devastating financial impact on global fourth birthday. As they grow into healthcare systems too. At its current adults, this problem worsens. Ove rate the cost of obesity is expected to the next 20 years of their lives, adults reach \$3tn (£2.3tn) per year by 2030 in their twenties with a relatively high and more than \$18tn (£13.7tn) by 2060. | genetic-risk score for BMI will typically

crisis. In February, research | also increasing the risk of millions of | three times higher than those with low people developing a host of other serious health problems. These include BMI and an unhealthy lifestyle will suffer heart disease, Type 2 diabetes, high cents and adults living with obesity | cholesterol, high blood pressure and | the research must spark a change in even some cancers, which could put the healthcare system under more strain.

The role of genetics

People suffering with obesity are ofter accused of simply eating too much and not exercising enough. But groundbreaking research by biotech firm underlying factor. At Bupa's Healthcare Symposium: Unboxing Digital Health Genomics PLC's CEO, Sir Peter Donnelly unveiled the results of a study tha showed how a person's genetic profile has a direct influence on their BMI and subsequent risk of developing obesity. During his talk, a series of graphs

illustrated how a child's BMI is already associated with their genetics by their blame and guilt to focusing on how best to help people overcome these challenges

risk. People with a higher genetic-risk an even greater increase. Donnelly says the conversations around obesity and underpin future treatments that target ong-term lifestyle changes

"We need to change the discourse round being overweight, from a culture of blame and guilt to focusing or these challenges," said Donnelly. "We

We need to change the

discourse around being

overweight, from a culture of

Personalised treatments The starting point for creating a persor

alised treatment programme is genetic testing. Bupa has become the first major private healthcare provider the UK and Spain to offer its customers whole genomic sequencing under its two-year pilot programme, My Genomic Health. The pilot will give more than 14,000 healthy customers the opportunity to undergo an analysis of over 300 genes and nine polygenic-risk scores to identify their risk of developing obe sity and 36 other health conditions that are often associated with the disease These include heart disease, diabete and 10 types of cancer

uals with a high genetic risk. Howeve

risk of obesity will need more support

to help them stay at, or return to, a

healthy weight. It also shows that the

effort required for those with a high

For example, a person with a poly-

genic-risk score (PRS) at the 95th per-

centile has to walk 10,000 steps a day

more than someone at the 20th per-

centile to balance the impact of their

He added: "It's clear that health

care initiatives that take into account

genetic profiles would be significantly

healthier for longer. This information

means we have a golden opportunity

to develop much more sophisticated.

personalised and successful obesity-

prevention programmes."

genetic risk is much greater."

PRS, notes Donnelly.

Bupa's chief medical officer, Anne Lepetit, says the pilot could have a transformative impact on the treatment of obesity. "Early detection enables us to deliver a risk-factor action plan," she says. "People can be really preventative in this area by understanding the lifestyle habits they need to maintain a healthy BMI. The tests will also give people insights into how their bodies are likely to respond to different

that a healthy lifestyle can prevent obeuffering with more serious healt mplications from obesity." sity and comorbidities even in individour research shows that those at high

oss wonder drugs such as semaglutide r those suffering with obesity. But pharmaceutical solutions are expen sive and questionable if taken over the ong term. For Bupa, personalised life tyle-focused interventions delivered by digital technology are exciting.

For example, Bupa's clinicians can use enetic testing to create personalised nealth and exercise programmes that may eventually be delivered through the company's digital health solution more effective in helping people stay Blua. In Spain, an Al-powered physio unction in Blua also enables users to use their smartphone camera to track hysio sessions and provide real-time eedback on their efforts. Alerts can keep people on track by informing them about their daily step count or remind ng them of upcoming sessions.

> For patients suffering from compli ations from obesity, other digital ser vices can aid their treatment. Virtual r in-person physio appointments car be booked via Blua to address musuloskeletal issues and mental health roblems. "People with obesity are ore likely to suffer from anxiety and e can use Blua to monitor their activ y levels and their physical and mental ealth on an ongoing basis and recom ist before a serious problem occurs.

Find out more about how Bupa's Blua is transforming digital healthcare at bupa.com/impact/ digital-healthcare/blua



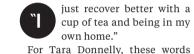


DIGITAL TRANSFORMATION

The real health benefits of virtual wards

Virtual wards enable healthcare staff to remotely monitor patients. Although their present use is limited, they may be the long-term answer to the NHS's acute capacity problem

Jon Axworthy



confirmed the benefits of virtual wards. "She was a 90-year-old lady called Edna, living with heart failure and being cared for in a virtual this year with a commitment to for healthcare staff to comfortably ward," says Donnelly, a former chief | scale up the concept, after a review digital officer for NHS England who of the first year found that virtual now leads a consultancy called Digital Care. "Her experience really 20 hospitals' worth of bed space. that the concept can deliver."

delivery plan for recovering urgent NHS services. and emergency care services in 2023, virtual wards seek to save on somewhere entirely familiar, unen-

just recover better with a | inpatient bed days with clinical cup of tea and being in my staff communicating with patients in their own homes through remote-monitoring technology,

including apps and wearables.

The strategy set out a fully funded two-year action plan. It was updated wards had created the equivalent of

this time of year, as the annual win-Introduced in NHS England's terpressure begins to take its toll on term condition, it could be 10 to 12

Who wouldn't prefer to be treated

cumbered by visiting hours and NHS toast? Nearly eight in 10 patients (78%) would rather monitor their own health at home using technology, according to a report by The Health Foundation. This rises to 85% for those aged 65 and up.

NHS England established its commitment to the scheme in the UEC update. But what will this involve?

In the UK, virtual wards are populated only by patients presenting with respiratory infections, frailty or heart failure, along with those who have diabetes or Covid. But the health service intends to expand their use, with a focus on children and young people. Pathways are already being set up for paediatrics and as part of the elective process for people recovering after surgery.

For Donnelly, the next logical step is broadening the use of virtual wards to those with long-term conditions. She points to chronic obstructive pulmonary disease, a group of common and progressive lung conditions – such as emphyse ma - that worsen over time and result in multiple admissions, particularly in winter. NHS England data suggests COPD is responsible for more than 1 million bed days which could be saved with virtual wards at scale

With virtual wards, it is possible

"A nurse on a ward may have eight The issue is acutely relevant at ple are acutely unwell, it may be five times as many.

This is because economies of scale



A nurse may have eight patients to supervise. On a virtual ward, it may be five times that many

nurse supervising eight patients, and affordable, not what is needed Donnelly says. "On a virtual ward, in terms of skilled labour. where the monitoring information is fed into a dashboard that flags any | was well known to the UEC archialerts, that nurse could safely look | tects; they allocated £450m of after many times that number."

potential of AI to enable a step workforce salaries. change in the delivery and scale of digital home care in the form of clinical co-pilots.

bots and clinical avatars that can | Innovation Network noted in its interact with patients. We can evaluation of virtual-ward models imagine clinical co-pilots helping in | that in terms of recruitment, "posithe future so that a clinician could | tive word of mouth has helped to perhaps supervise thousands of generate interest, especially among patients safely at home," she says.

Doccla is one of the largest British tech companies working with the costs, with a Lancaster University NHS. It is already investigating how | study of virtual wards in Wrighting to integrate large-language models | ton, Wigan and Leigh concluding (LLMs) into the clinical workflow of | that a virtual-ward bed costs twice its technology so that data from as much as an inpatient bed. wearable devices, patient records and call transcripts can be lever- al Institute for Health and Care aged in virtual ward co-pilots.

significant barriers to deployment. Data from a freedom-of-information request reveals that out of 107 health trusts surveyed, 40% need to recruit additional staff to support the delivery of virtual wards.

Although a virtual ward populated with patients with long-term | back to Edna and her homemade conditions would be manageable | cup of tea. with the existing workforce, extending their use to patients with more complex conditions would be a models of care that put the patient stretch. And the burden would like- squarely at the centre," she says. ly fall on district nurses and primary care, according to Professor | ment must have the courage to bring Alison Leary, chair of healthcare about a step change in the use of this and workforce modelling at London | model, so it isn't just 8,000 people South Bank University.

know remote care works well in a NHS and spending much more time

failure, but patients with multiple needs are often more reliant on nursing care," she explains. "If virtual wards are to be scaled up, the caseloads of the existing services and types of patients need to be considered carefully."

Most of the new initiatives in the NHS have little workforce planning, adds Leary. Resourcing decisions are often based on what is available

The challenge of attracting staff investment over two years, with Donnelly is also excited about the 90% of that money ringfenced for

It's possible that as staff become more familiar with virtual ward operations, the capacity could "There are innovators working on grow. Encouragingly. The Health internal candidates."

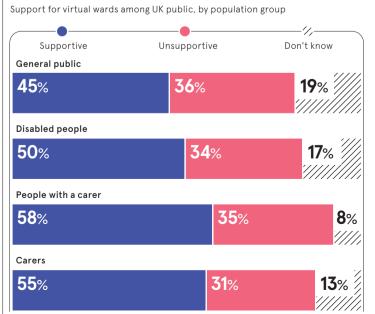
Concerns remain over operational

In contrast, a report by the Nation Excellence found that virtual-ward Recruitment and staffing could be models are usually more costeffective, thanks to the reduction of inpatient bed days and the lower

> But even if virtual wards proved costlier, better patient outcomes may still justify the additional outlav. Donnelly believes it all comes

"I think the key to scaling up is all about people being ready to try new "The leaders of the NHS and governlike Edna who benefit: it's 50.000 "This is a recurring issue. We people every day, supported by the lot of specialisms, such as heart at home and far less in hospital."

PUBLIC SUPPORT FOR VIRTUAL WARDS



Cross-sector collaboration can transform the future of patient care in the UK

Partnership-based care models can unlock the bold thinking and collaboration required to help the NHS tackle healthcare challenges, deliver innovation and ensure equitable access to care

unprecedented healthcare | critical need for change is upon us. innovation where breakthrough science has the potential to transform treatment options for some faced by patients worldwide. But in the UK, many question whether our health- | tions like anxiety, depression and care system is set up to adapt quickly enough, so that patients can reap the full benefit of this clinical progress.

"I am continually inspired by the possibilities that science provides to shape the future trajectory of healthcare in the UK, but truly transformational progress will only be achieved through stronger collaboration to ensure our access environment and patient pathways keep pace with scientific advancements." says Roz Bekker, managing director UK and Ireland, Johnson & Johnson Innovative Medicine.

The new government recognises the success that arises from partnership between government, the pharmaceutical industry and academia. Earlier this year, a £400m investment pro- try to ensure UK patients are not left gramme, backed by the life sciences sector, was launched with an aim to for access limitations in the compli stimulate clinical trial activity and fasttrack new treatments to NHS patients. Whilst this is a positive step, to deliver on their pledge to build an NHS 'fit for the future'. Labour's public-private model must be applied to day-to-day | care" says Bekker. healthcare outside of health research

The positive news is that the new government has had the good fortune to inherit the 2022 Health and Care Act, a brated its UK centenary this year foundation for partnership-based care. As NHS England put it: "When local partners - the NHS, councils, the voluntary sector and others - work together, they can create better services based on local need." The act granted Integrated Care Services (ICSs) partnerships between organisations who have responsibility for health and care services in a geographical area legal powers to serve populations in England of between 500,000 to three million people. The NHS Confederation, which speaks for the whole healthcare system in England, Wales and Northern Ireland, has said that cross-sector partnerships are 'essential' to help the NHS overcome its many challenges.

These include record waiting lists, financial constraints, limited access to new medicines, workforce pressures and an ageing population. In combina-

"As we all know age increases the risk of long term and major illness. From cardiovascular and metabolic diseases of the toughest health conditions | like heart failure and type 2 diabetes. to mental health and neurological condidementia. All are set to increase in prevalence by 2040,"1 says Bekker. "The incidence of cancer is also estimated to rise from three million people living with the ondition today to 5.3 million by 2040."

And worryingly, right now, innovative edicines that UK patients will increas ingly rely on are simply not available at tries. Of all recently approved new med icines by the European Medicines Agency (EMA), just 56% are available in ngland and 54% in Scotland, compared to 88% in Germany and 77% in Italy.³

"This gap in availability of medicines nighlights the urgent need for regula tory reform and enhanced partner ships between government and indus behind. While there is no single reasor cated sphere of healthcare, with a new government in place, we have a unparalleled opportunity to drive holistic improvements and ensure the NHS is fit to lead the future of health

Partnering for patients

Johnson & Johnson (J&J), which cele already has a strong tradition of work ing in partnership with patients, chari ties, clinical researchers and the NHS

Its UK Services and Solutions Centre of Excellence was created to establish dedicated, local partnerships with the NHS and healthcare professionals, to support fragmented services and help meet the varying health needs of

with NHS trusts and supporting them to look at the bigger picture concerning a model of care," explains Bekker Sometimes having that additiona external perspective can identify where current service challenges exist.

One of these projects is currently being progressed for patients receiv ing oncology and haematology treat ment within the catchment of Hull University Teaching Hospital's NHS tion with the ever-increasing number of | Trust. Present challenges mean that patients expected to develop multiple | service delivery is spread across the



We have an unparalleled opportunity to ensure the NHS is fit to lead the future of healthcare

> region, with some patients travellir long distances for treatment.

"The knock-on effect can be delayed or missed appointments, which leads to reduced efficiency and capacity across the system," notes Bekker. "Based on extensive local insight, our teams are working to deliver an interactive mapping tool which will support healthcare providers to bring services in closer alignment with local patient needs and priorities. Through such initiatives, our aim is to reduce missed appointments and improve patient outcomes, supporting more efficient care pathways."

J&J has also designed services which expand care outside of traditional settings, seeking to create individualised treatment experiences for patients.

"We know all too well the challenges facing patients with a cancer diagnosis who may have limited options regarding

ment. Focusing on prostate cancer, after initiating treatment with their doctor, patients can opt for home delivery of their medication. They can also receive additional support from a telephone nursing service for the first six months of treatment. This enhances regular contact with patients, which car ultimately improve their outcomes."

These examples of patient-focused 360 degree healthcare remind Bekker of her time as a young doctor in rural South Africa, where resources were limited, and patients sometimes travelled for hours to see a healthcare professional.

"When working within these commun ties in South Africa, I truly learned the mportance of patient-centric care appreciating a person's presentation and llness within the context of other cha enges they faced. This is an approach we champion in the UK through ICSs and pharmaceutical partnerships.

Bekker is confident that ICSs have the potential to reinforce deeper levels of strategic partnership with the pharmaceutical industry. She remarks: "With the knowledge of what our future health needs will be, we must employ forward-thinking strategies to ensure healthcare professionals have every tool available to support patients with the best possible treatment and care." Bekker adds, "We call on healthcare leaders and policymakers to embed | CP-488199 | November 2024

where and how they receive their treat- I these long-term partnerships and reforms, so we can build a healthcare system that meets the needs of every patient. Only through working together can we champion equitable improve ments in population health, best in class healthcare provision and pros perity for the whole of the UK."



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gualities%20in%202040.pdf. Accessed

² Macmillan Cancer Support (2024). Available t: https://www.macmillan.org.uk/about-us hat-we-do/research/cancer-statis

EFPIA WAIT Indicator (2024). Available at ttps://www.efpia.eu/media/vtapbe



RACONTEUR.NET - 7-07

Hidden costs, broken systems: fixing the UK's social-care crisis

As hospital waitlists grow, the need for social care reform is urgent. Calls are growing for fairer funding, reduced means testing and sustainable solutions to secure late-life care

and social care secretary, has I likely to save one of the toughest jobs in government With hospital waiting lists of about 7.5 million patients, the NHS must be his first priority

But this should not be at the expense of care and nursing homes. Despite endless commissions and reviews over the past 40 years, successive governments have left social care underfunded, under-staffed and locked into an inequitable system. While the NHS is

As The King's Fund healthcare charity put it so succinctly: "The difference is huge. No one is asked about their house value if they need medical treatment for cancer, yet, if they need social care because of dementia, that is exactly what happens. This level of means testing sets England | social care. apart from many other progressive, developed countries such as Germany, Japan and Denmark."

This is why Hartford Care Group, which runs 19 care homes, is campaigning for better public education care and nursing homes to eliminate | and the NHS means testing and the financial insecurity riddling social care. More than 370 care homes in England closed in 2023.

Care estimates that one in seven residents pays more than £100,000 for for the CQC to inspect its two new care. Means testing results in thousands of families selling their homes.

People with assets of more than £23,500, including property, savings | CQC inspections – local authorities are and investments may be liable for all care-home charges. The Office for National Statistics reported that of the 372,000 people living in care and nursing homes in 2022-23, more than a third were 'self-funders'. The rest were | Care we've had only two CQC inspec supported wholly or partly by local authorities or by the NHS if they had complex, long-term health problems.

Kevin Shaw, chief executive of Hartford Care, says: "There are stra- | NI bills. The NHS is exempt from the tegic, far-reaching national campaigns to help people understand the importance of pension savings, but nothing exists to provide clarity on the scrapping this year of the govern care-home placements and provi- ment cap restricting the amount a sion. All too often, information simply person could pay for their personal comes too late."

In a national survey of 2,000 UK

s Streeting, the new health | Those aged 30 to 59 were the least

Hartford Care has a simple solution for care and nursing homes. Shaw explains that all workers could begin making additional national insurance (NI) contributions early in their lives - in their 20s, perhaps. Whereas existing NI payments are used to fund the NHS and state pensions, the extra contributions could be used for late-life care

He adds: "If I took out a mortgage now, I could get insurance for, say, £140,000 for £5 per month over 30 years. A state-run, care-home insur-

ment seal of protection. I'm sure most people would contribute willingly if they were properly informed about the cost of and the challenges facing

Bureaucratic red tape is another multi-million pound bill. English care homes must register with the Care Quality Commission, the independent regulator of health and social care services. Registered care homes can around paying for social care, and the | accept self-funding residents as well appointment of a visionary minister for | as those funded by local authorities

But some local authorities refuse to pay care homes unless they have had a CQC inspection — even, remarkably, if The Department of Health and Social | they are CQC registered. Hartford has been waiting for more than 12 months £20m homes

> Shaw says: "These two homes are run ning at only 50% occupancy for want of

"This has left us with 132 empty beds even though we pay the CQC about a authorities are screaming for places."

butions will add millions to care homes new charge, but GPs, care homes and hospices are liable

Setbacks for future residents include care to £86,000.

So where do we go from here? The adults commissioned by Hartford government has promised to "grip" the Care, 49% of respondents said that social care crisis, which means closing they had no savings for later life care. I the widening gap between the home away from home



availability of publicly funded care.

Care's vision for care home charges to be met through additional NI contribuions. Home-care provision could then

We believe that there is a huge

opportunity to transform social

care for the better. Not least,

and compassion we see from

our staff every day to create a

because of the dedication

population's need for support and the | that is both ageing and increasingly | But the King's Fund argues that susceptible to multiple long-term con-It could do so by adopting Hartford | ditions. The life expectancy of older people with learning disabilities is increasing, adding to the pressure – as | fairer, with more people able to access Alzheimer's, including those under 65.

In April 2024, the Nuffield Trust, the ndependent healthcare think-tank, reported a decline in the total number of beds in care homes per 100 people aged 75 and over, from 11.3 in 2012 to

The shortfall is projected to reach 64,000 by the end of 2024. Thousands of patients who should be in care homes are blocking beds in NHS hospitals, resulting in longer wait times for other NHS patients

additional £600m to social care, but | Social Care in Crisis report in full, Shaw says, "This isn't enough." No one visit hartfordcare.co.uk will blame him and others in social care for looking on with envy at the additional £22bn NHS funding.

social-care reforms should look beyond funding. It says: "The fundacare that is, at least in part, funded by the state. This would be the mark of a

here is a huge opportunity to trans least, because of the dedication and compassion we see from our staff every day to create a home away from nome for every single resident of the

The government has allocated an | To read Hartford Care's

'You really have to invest time in educating investors'

Flo Health is Europe's first femtech unicorn. The company's CFO, **Tamara Orlova**, outlines the challenges femtech startups face in getting investors onside

began using diaphragms for contraception in the 1800s, with health causing under-investment and a lack of research. But is the rise of Flo Health a sign of change?

Europe's first femtech unicorn. The period- and pregnancy-tracking app raised \$200m (£156m) from funding rounds you go through, General Atlantic, a growth investor, she says. "But it's a long process and becoming one of the handful of it can be hard to stay enthusiastic. femtech companies to be valued at more than \$1bn.

enables users to track their ovula- investors. This began long before tion cycle and monitor symptoms. the firm went to market. and offers relevant educational insights. Apps such as Flo have changed how women engage with research and preparation. We identheir health. The platform's 70 mil- | tified investors that we knew could lion monthly users are evidence of help with our specific challenge and the demand for such services.

Tamara Orlova is Flo's chief finan- their profile was." she says. "Not cial officer. Since joining the compa- every investor is going to have the ny in 2019, she's focused on cutting same questions or way of thinking losses and helping to drive the firm from a startup to a rapidly growing the more information you are able to scale-up. Flo's revenue in 2023 was \$112m (£86m), up from \$35m (£27m) fortable they are to move faster." in 2022, according to the latest annual accounts.

Despite the growing demand for female health solutions, firms must contend with deep-rooted prejudices that make accessing capital much harder, Orlova says.

Although women make up more than half of the population, prod- as early as possible. We were in disucts and services focused on their health have long been viewed by investors as a niche market. Part of the problem, Orlova explains, is a investor discussions? "It's probably male-dominated investment com- the one function in the company munity that "often fails to grasp the | that is actively involved through the value proposition" for women's entire process," says Orlova. "And health products.

meetings and having to explain to a looking more closely at us to provide room full of men the intricacies of | those crucial pieces of information.

emtech has faced an uphill | the female fertility experience battle ever since women Like most niche markets without a track record, investors struggle to validate the business model and age-old taboos around women's scalability. You really have to invest

Orlova faced considerable pre sure to map out and communicate a In July, Flo Health became clear equity story that investors would buy into. "It's easier the more milestones you hit and the more

For Flo, securing game-changing investment was about building and Founded in 2015, Flo's platform managing the relationships with There are no shortcuts, Orlova

says. "A lot of it came down to made sure we knew exactly what so come prepared - I've found that give them up front, the more com

Orlova says Flo's leaders spent con siderable time crafting the story of the company, and cautions busines leaders against waiting until their

"You'll be in a harder position to communicating with your investors vears prior to their investment.

What role should the CFO play in the fact that investors have become She recalls walking into pitch more data-driven means they are ogy behind this anonymous feature | first women's health app to achieve Concerns about data privacy are

Not every investor will have the same questions – the more information you give them up front, the more comfortable they are to move faster

> Women's health is still a controworld. Orlova says there are additional complications that come from operating in the female fertility market that Flo has had to navigate as a result, including reproductive laws and data privacy concerns.

In 2022, the US Supreme Court overturned women's constitutional right to abortion, triggering fears among users of menstrual-tracking against them in states where abortion has lost legal protection. Thanks to growing concerns over political policies, some women have deleted their period-tracker app. Global usage decreased 7% in 2023, according to analysis by Sensor Tower, an app intelligence firm.

In response, Flo established an "anonymous mode" that allows people to use the app without linking has since open-sourced the technol- | men and funded by men became the | the sector remains to be seen.

with the rest of the femtech sector.

update, Flo's average daily users months following its 2021 settlement with the US Federal Trade Commission over allegations it had shared data on users' menstrual cycles and pregnancies with third-party companies, including Google and Facebook.

A recent poll by the Information Commissioner's Office of women versial topic in some parts of the using fertility apps found that transparency over how their data is used and how secure it is were bigger concerns than cost and ease of use when it comes to choosing an app.

"Protecting our users' data has become a huge focus for the business," says Orlova. "It is important that we have a direct line of communication with our users and are continually striving to improve the

Despite its female-focused ser vice. Flo was founded by two brothers, Dmitry and Yuri Gurski. The fact that a male-founded firm has become Europe's first unicorn femtech to achieve unicorn status has sparked online backlash.

In a viral LinkedIn post earlier this year, Anna-Sophie Hartvigsen,

unicorn status. If this doesn't show you everything that's wrong with not unfounded. Prior to the recent | the ecosystem. I don't know what will. No other company in the had been on the decline for several | industry founded by women has been able to scale equivalently

> because they can't raise money." It's no secret that female business leaders find it more difficult to raise money than their male counterparts. Female-founded startups accounted for just 2% of VC investment in 2023, according to data by PitchBook an investment-insights platform. On average, female-led femtech startups raise \$4.6m (£3.9m), whereas those with all-male teams raise \$9.2m (£7.4m), according to data published in the Europe an Femtech Report 2023-2024.

Such findings raise concerns that emale founders may feel pressure to add a male to their executive team o improve their chances of funding. Although Orlova acknowledges these challenges, she believes that a successful femtech business, regardless of who is at the helm, is a

win for the entire sector.

With its newfound unicorn status. Orlova hopes Flo will open the door for other femtech businesses and drive further innovation in the space. The startup already has plans to expand into new areas in women's co-founder of Female Invest, an health, including perimenopause investment learning app, wrote: "A | and menopause. Whether Flo's own any personal data to their name. It | company founded by men, led by | success is a sign of things to come for

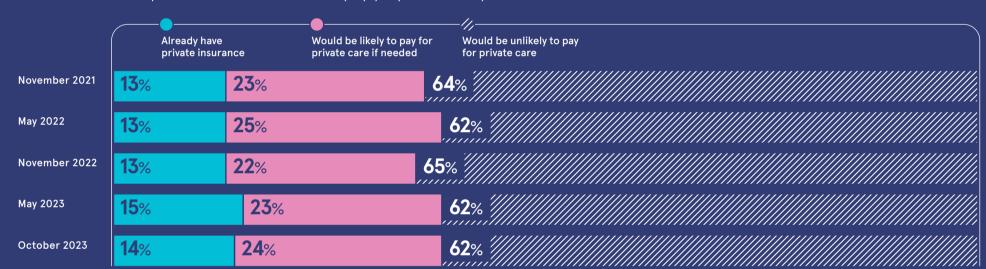


PRIVATE CARE IN THE UK

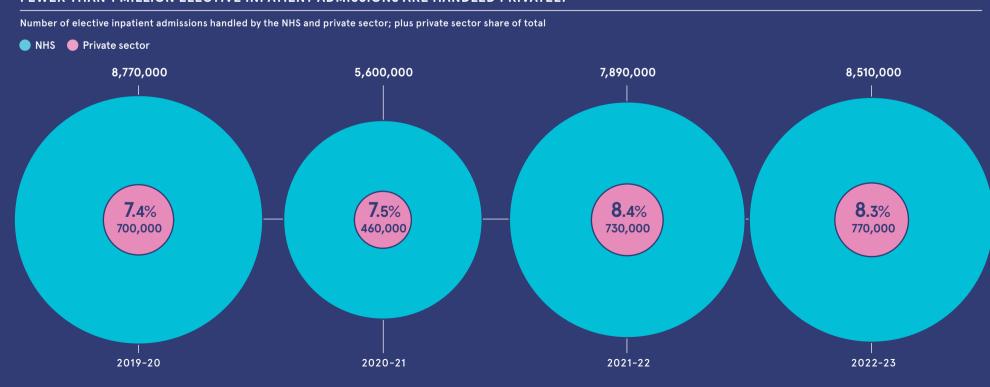
The NHS is facing historic pressure on its services and public satisfaction with the health service is at an all-time low. There are concerns therefore that those seeking care will increasingly turn to private insurance or self-pay options, which could lead to a two-tiered health system and further deterioration of the NHS. But such fears are yet to be realised. Rates of privately funded inpatient admissions, as well as the UK public's willingness to pay for healthcare, remain stable and relatively low.

ONE-QUARTER OF UK ADULTS DO NOT HAVE PRIVATE COVERAGE BUT WOULD BE WILLING TO PAY FOR PRIVATE CARE

Share of UK adults who have private health insurance or would be likely to pay for private care if they needed it



FEWER THAN 1 MILLION ELECTIVE INPATIENT ADMISSIONS ARE HANDLED PRIVATELY



CATARACT SURGERY IS BY FAR THE MOST COMMON PRIVATE-CARE PROCEDURE

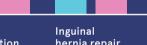
Number of insured and self-pay admissions for particular procedures in the UK

Q1 2023
Q1 2024













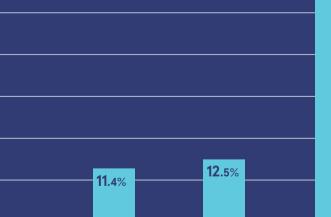


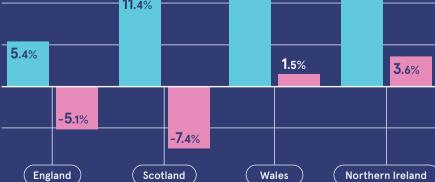
RATES OF PRIVATELY FUNDED CARE ARE GROWING FASTER

Percent change in insured and self-pay admissions between Q1 2023 and Q1 2024, by nation

Insured Self-pay







THE NUMBER OF CONSULTANTS WORKING IN PRIVATE CARE HAS REMAINED BROADLY STABLE

Number of active consultants in UK private healthcare



PHIN, 2024 PHIN, 2024 The Health Foundation, 2024





Patient-first serial innovation: a new era in biotech discoveries

Vertex Pharmaceuticals is committed to reshaping the landscape for people living with serious diseases

medicines for people living with seri- Administration (FDA) approves its two ous diseases. It is best known for its | newest potential treatments. innovative treatments for cystic fibrosis (CF), a life-threatening condition | Transformative advances in the that causes sticky, tar-like mucus to build up in the lungs and other organs. research in CF has led to the development of other innovative treatments.

Its success stems from an unwavering opment (R&D) and understanding of causal human biology to course correct a disease. The company believes that the true value in the industry lies in scientific innovation, which is why three out of every five Vertex employ-

David Altshuler, Vertex's chief scientific officer for ten years, says: "Every | and knowing how to fix it. dollar we don't invest in sales and marketing is another dollar we can invest in

Vertex's pioneering CF programme folowed the 1989 discovery of the cystic regulator (CFTR) gene, which controls salt and water flowing in and out of cells. Affecting tens of thousands of people worldwide, CF is caused by a defective or missing CFTR protein.

The CFTR discovery generated global excitement as the first disease-causing gene to be identified in any condition But, as Altshuler points out, the follow ing decades highlighted the wide gulf between identifying a genetic problem

Pre-existing medicines such as antibiotics and steroids treated the our corporate strategy, we made sure and inflammation, but the R&D vision it was designed to enable serial innova- was to address the genetic defect by tion." This is not hyperbole. Innovative | addressing the underlying cause of CF medicines are defined as those with by restoring the function of the CFTR

ertex Pharmaceuticals is a I of active substances that have not I Vertex screened more than one milglobal biotechnology com- been authorised before. Vertex has lion molecules, designed and synthe pany that invests in scientific | launched five since 2012. The total | sised more than 30,000 molecules and innovation to create transformative | will be seven if the US Food and Drugs | ran more than 150 clinical trials in over 10,000 patients.

> medicine targeted at the underly treatment of cystic fibrosis

ing cause of CF; it treated 4% of the patient population.3 But R&D laid the foundations for a string of three more fibrosis transmembrane conductance | transformational therapies. By 2019 medicines that were capable of treat ing approximately 90% of CF patients Given this progress, they are also look

In 2012, the European Medicines

Agency (EMA) approved Vertex's first

We are relentlessly working R&D. At Vertex, everything started with symptoms of CF such as infections to bring more medicines to patients. We are already working on programmes that are not just an active substance or combination | protein. Developing its CF therapies, | for 2025, but 2030 and 2040

support the less than 10% of patients

with CF who do not benefit from small

nolecule CFTR modulator therapies.

There are few comparable recent advancements - the development of powerful HIV drugs in the 1990s is one. HIV/AIDS had been a death sentence. Like the CFTR medicines, the new HIV | please visit vrtx.com/en-gb therapies did not cure, but they turned a terminal illness into a chronic, manageable one.4 Between the 1970s and 1990 life expectancy rose to about 30 due to nucleoside reverse transcriptase inhibitors.

Altshuler says: "Innovative treatments for cystic fibrosis have changed patient outcomes over time. Estimates have shown that the median age of survival, for patients with CF relying on supportive care alone, would be 38 years. 5 With early adoption of new standard of care therapies before the age of 12, some patients could live up to their 80s "6

Vertex has applied its unique R&D strategy to discover potential treatments for other serious diseases:

Sickle cell disease & transfusion dependent beta thalassemia: Both diseases are serious and lifelong inherited blood diseases, which can cause damage to, or failure of, multiple organs in the body. They are caused by mutations in the HBB gene and require lifelong treatment, ultimately leading to a decreased quality of life and reduced life expectancy.

Pain: There hasn't been a new class of acute pain medicine in more than 20 years and Vertex believes it can redefine the treatment of pain with a new mechanism of action. Vertex is investigating small molecules that aim to inhibit selected sensory nerves and prevent pain signals from travelling to the brain to potentially alleviate both acute and chronic pain.

• APOL1-mediated kidney disease A genetic condition linked to two variants of the APOL1 gene. It can cause rapid progression to kidney failure, characterised by fatigue, lower limb swelling and weight gain.⁸

Type 1 diabetes: Linked to genetic, immune and environmental factors. type 1 diabetes results in an absence of insulin producing cells. Vertex is investigating multiple treatment approaches.

Vertex strives to take on the impossible, it is developing the first non-opioid acute pain treatment in more than two decades, and has set a goal to change the paradigm of pain management. "We're incredibly focused on serial innovation. If something has never been done before, many companies will say it cannot be done, but at Vertex, we see it as an opportunity, avs Altshuler

"Vertex is in a very interesting and xciting position. Each step forward requires more energy and even more hard work from our world-class team. Over the last 10 years, we have shown that we're not only able to discover and develop medicines for CF. We have shown that our R&D strategy can vork. But of course, we are relentlessly orking to bring more medicines to patients. We are already working on programmes that are not just for 2025, but 2030 and 2040. We plan to keep



KALYDECO™ (ivacaftor), the First Medicine to reat the Underlying Cause of Cystic Fibr eople With a Specific Genetic Mutation

Alum FU et al. Toward a cure - Advancing HIV tiretroviral therapy: A Review, Medicine altimore), 2024 Jul 5:103(27):e38768.

cellence (NICE), Jul 24. Ivacaftor-tezacaftor exacaftor, tezacaftor-ivacaftor and

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Angastiniotis M, Lobitz S. Thalassemias: Ar rview. Int J Neonatal Screen. 2019 Mar

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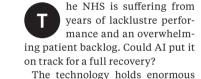
n adults. A consensus report by the American etes Association (ADA) and the Euro ociation for the Study of Diabetes (EASD). Diabetologia, 2021.

ARTIFICIAL INTELLIGENCE

Machine medicine: how AI could transform the NHS

AI holds great promise for the healthcare industry, from improving diagnostics to accelerating treatments. But is the technology really a panacea for the NHS?

Chris Stokel-Walker



promise across the economy, but dous strain, AI-driven solutions can one of its greatest potentials is in provide critical support to undersupercharging the sluggish health staffed teams and help make comservice. In fact, three-quarters of munity-based virtual care a reality. NHS staff believe that AI should be For instance, remote and virtual Health Foundation.

believe it will benefit operations behind the scenes.

So where and how should AI be deployed - and in which areas a dementia patient opens and closes should it be avoided?

is in applying it where it's genuinely | understand when and how to inter-

he NHS is suffering from | needed and can make the greatest impact - not just because it's possimance and an overwhelm- | ble," says Alan O'Reilly, chief innovation officer at Purple Transform which develops AI for the health system. "With the NHS under tremen-

used for patient care, while 81% healthcare can help to free up beds believe it will be a boon for the in hospitals while ensuring that administration of the NHS, accord- patients are still given comprehening to a July 2024 survey by The sive care and attention. "AI-powered remote patient monitoring - using The public are slightly more retilesensors that measure vital signs cent, but there are still signs of sup- | could enable individuals to recover port for the technology: 54% want at home more safely, reducing hospi to see AI in treatment, while 61% | tal strain and enhancing patient comfort," says O'Reilly.

Systems that alert staff when a vulnerable patient leaves a room or refrigerator doors and cutlery draw-"The real value of AI in healthcare | ers can help health professionals to

The real value of AI in healthcare is in applying it where it's genuinely needed and can make the greatest difference – not just because it's possible

> vene to support their recovery or treatment. The technology could | tial to unlock efficiencies that could

"These AI-driven insights can enhance healthcare delivery and ensure that resources are focused where they matter most – on better patient outcomes and quality of life," O'Reilly adds.

AI could also be used in mental health support, says Aynsley Bernard, principal data scientist at Kooth, a digital mental health pro- es. She also thinks AI could be used vider. For instance, the technology can be used in interactive tools and chatbots, which can help to address | help overwhelmed clinicians prioriskills shortages and build work- tise patients based on risk and force resilience, ensuring more efficient patient care.

"Beyond triage and referral, AI has the potential to provide highly personalised care, especially when it | Care Excellence shows that AI can comes to mental health support." Bernard says. "This includes offer-McKinsey, 2024 | ing coping strategies tailored to an | technology | can | also | provide | unlikely to be a panacea. ●

individual's specific needs, enabling continuous self-management."

AI can also be used to rifle through large volumes of data to pick out patterns, which can help to predict mental health trends in individuals and populations. "This would enable healthcare providers to respond proactively to risks by identifying early signs of mental health deterioration and intervening before symptoms escalate," says Bernard.

Marta Zanchi is the founder and managing partner of Nina Capital and the former director of biodesign for digital health at Stanford University. She believes AI has the potenalso assist patients in need, such as spread across the healthcare industry. "There are some novel use cases that haven't yet been explored to their full potential," she adds.

Zanchi says AI tools could be used to automate workflows involved in running pharmacies. For instance the technology can be used to track and check inventories to identify when new drugs need to be ordered and analyse patient-use patterns to better predict and head off shortagto triage patients: "In the context of the overstretched NHS, AI tools can direct them to the right care settings," she explains.

What's more, research by the National Institute of Health and reduce the number of broken bones missed when analysing X-rays. The

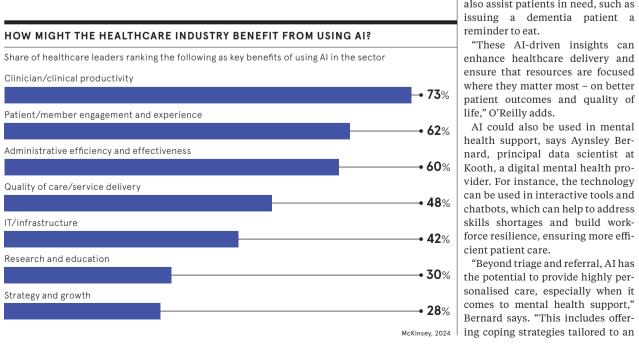
medical questions, according to research by Harvard University.

Yet Zanchi and others worry about the knock-on effects of going all-in on AI. Some predict a world where AI supplants the human doctor.

Experts tend to agree that health providers should avoid wholesale AI implementation on the front lines of treatment. "Autonomous 'AI doctors' would face resistance due to a lack of trust and concerns around accuracy and regulatory compliance," Zanchi explains, "Instead, we should be looking at AI co-pilots that can take the burden of manual tasks - such as utilisation manage ment and writing documentation away from clinicians.'

Bernard is equally concerned about an over-reliance on AI, which she believes could lead to "skill regression among clinicians". Some healthcare professionals even worry that AI integration will result in a two-track health system, where those who can afford to pay are given human-based treatment and with virtual assistants. For these reasons, Bernard stresses that AI cools must be used to augment numans, rather than replace them.

What's needed is a change in perception, says Zanchi. While she acknowledges the excitement surrounding AI is understandable, the industry must think about patient outcomes first and AI second. There's no doubt the technology will be transformative, but it is



Advancing global

medical-device

innovation

gadgets that split pills in two.

ance standards' required to bring them

to market. Some manufacturers have

expressed concerns that increasin

regulatory requirements for quality and

safety standards would result in increas-

But a novel FDA initiative, the Voluntary

Improvement Program (VIP), has shown

that 'going above and beyond compli-

ance' towards excellence has the oppo-

site effect. VIP appraisals within com-

panies have been shown to increase

manufacturing efficiency and product

availability by helping device-mak-

ers better understand, measure and

Manufacturers can decide whether

or not to apply for the VIP - more are

expected to do so in the light of the

programme's early, astounding suc-

cesses. ISACA reports that one VIP

company has increased production

capacity by 11%, resulting in an addi-

tional \$15m (£11m) in sales. Another

participating company has generated

\$286.000 (£224,000) in annual savings.

From a patient perspective, the

appraisals have enabled a VIP com-

pany to provide 882 more patients with

faster life-saving treatment. Production

at yet another VIP company has been

increased by 62%, staff turnover has

Results from the VIP

demonstrate that

prioritising quality

and collaboration

benefits both

patients and

manufacturers

improve everything they do.

ing costs and wait times for patients.

Regulatory Agency

healthcare through

'This is for the benefit of individuals, their families and the population'

The UK's largest medical research project has big ambitions for the prevention, detection and treatment of diseases in the NHS, from cancer to diabetes, says **Raghib Ali**

Sarah Dawood

glaucoma. The eye condition eventually led to the loss of his people will then be asked to return sight and forced him to stop work-

This personal experience sparked Ali's interest in preventative medicine. The level of deterioration endured by his late father can be avoided: early diagnosis of glauco- cer, diabetes, heart disease and ma and treatment can be lifechanging for glaucoma patients.

can prevent most of the blindness from glaucoma." Ali says. "It's an heart failure. "These conditions are example of the kind of disease that | not as common but have a major we would hope to tackle through Our Future Health and what we'd disability." Ali says. hope would be possible for many. many more conditions. It was too charity in 2020 and is being delivlate for my father, but that's why it's ered in partnership with the NHS very relevant for me personally."

Ali is chief medical officer and CEO of Our Future Health, the UK's from UK Research and Innovation. largest-ever medical research programme and the biggest study of its | started in 2022; it has just reached kind in the world. The programme hopes to lay the groundwork for earlier prevention, detection and treatment of diseases in the NHS.

Our Future Health aims to enlist 5

We are operating more as a national sickness service than a national health service

hen Dr Raghib Ali was a | donate blood samples for testing to child, his father developed assess how genetics contribute to for further testing so they can be tracked over a long period of time.

The huge data project mainly focuses on tackling the diseases that impact most people and cause most deaths, such as dementia, canstrokes. However, it also aims to investigate the genetic causes of "If you catch it early enough, you rarer diseases such as motor neurone disease, multiple sclerosis and burden both in terms of death and

Our Future Health was set up as a health charities and the pharmaceutical industry, with funding Recruitment to the project officially its milestone of 1 million participants providing blood samples.

Ali is a clinical epidemiologist and consultant in acute medicine at Oxford University Hospitals NHS million UK-based volunteers from a Trust, where he still works shifts in A&E. He qualified as a doctor 25 years ago. His experience has emergencies - such as heart attacks, strokes or kidney failure - are often the repercussions of uncontrolled long-term conditions.

> "Essentially, we are operating more as a national sickness service, treating people who are already sick, than a national health service that tries to keep people healthy,

The current model of healthcare is unsustainable and rates of disease are only expected to escalate. The



Currently, most disease screening programmes, such as those for certain cancers, don't start until middle age or older. The project will in good health for as identify people at the highest risk of developing certain diseases in their 20s, 30s or 40s instead, through analysing a combination of their DNA, environment and lifestyle. Those with the highest risk would be offered targeted screening programmes that are not simply based on age, which is "very important, but not the only factor", says Ali.

himself could be tested to see if he is | in a "trusted research environment genetically susceptible to the disease, which is more reliable than relying on family history alone. If he is, he could receive routine eve pressure and visual field tests, as well as retina scan checks. "It's a big change in our approach to how we manage access board and prove their health and disease, but it's trying to keep people in good health for as long as possible," he says.

Our Future Health is already onefifth of the way towards its participant goal. But a major challenge is encouraging people to part with their personal health data for the data," he says. "That's not possible. greater good of the programme. The public is understandably wary, possible to minimise that risk." given several high-profile NHS data breaches in recent years. Earlier in to CEO is quite the career change. 2024, for example, a Russian ran- But this is not his first time in a sensomware attack brought South Lon- ior administrative role, having predon blood tests to a standstill for on the dark web.

trust is vitally important to the of Our Future Health. programme's success. Invitation letters have been branded because trust in doctors and pharmaceutical compaplay a crucial role in developing new diagnostic tests or treatments and in providing funding.

families and the

already ioined

Building pub-

ic trust relies

on transparen-

the project."

people

cy around the data being

collected, how it is used

Communicating the due. With 3.7 million people overall purpose of the expected to be living with serious study has been paramount. "People understand what we're trying to achieve – that this is for the benefit of indi-Ali believes medical research will

model of care, enabling the NHS to get on top of its backlog and creating the capacity it so desperately needs.

"Those of us in the field recognise just how much pressure the system is under. The current model is unsustainable," says Ali. "The principle of being able to access health free at the point of need is something I'm personally very passionate about and I genuinely believe that and the steps being taken | Our Future Health is an important maintain its confidenti- part of that solution."



trying to keep people long as possible

ality and security, which is laid out through a data protection section on the charity's website. This explains how all health data is Take glaucoma, for example, Ali encrypted, anonymised and placed - a secure space protected from unauthorised access.

> Anyone who wants to use the resource - such as a researcher at a pharmaceutical company - must go through a separate independent research is for public health benefit. "This is the primary mechanism to ensure that data is being used in the right way," Ali says.

But no system can ever be foolproof. "We can't guarantee 100% But we will do whatever is humanly

months and resulted in people's the Public Health Research Centre medical records being published at New York University in the United Arab Emirates (UAE), where he Ali says that building public also set up a much smaller version

Being both CEO and chief medical officer is challenging, but the huge with the NHS logo and come | scale of the project has made his job from him directly as CEO; this easier. "The project is so unique. approach has helped, he says. People have joined from all different backgrounds – from the private secthe health service is still tor, the NHS, academia," he says. high. There are public- "It's a once-in-a-generation opporperception issues surround- tunity for the UK and the world to ing the involvement of understand how to better prevent common chronic diseases. So we nies, he admits, but they have attracted very good people."

The Labour government has vowed to transform the NHS from a "sickness service" to a "health service", a sentiment that's long overdiseases such as cancer, diabetes and dementia by 2040, there will be even more pressure on an already



plaints have reduced by 95%

Kim Kaplan, senior product manager Control Association (ISACA), explained that the programme followed an FDA study in 2011 into how to improve device quality and safety.

This prompted the launch of the Medical Device Innovation Consortium (MDIC), the only US public-private partnership to work with government and industry to promote innovation in medical devices, "The MDIC provides a safe space where the industry and the FDA can collaborate on solutions together," says Kaplan, The MDIC launched VIP in 2021 following a pilot ersion in 2018.

The New Zealand company Fisher and Paykel Healthcare (FPH), was among the first 120 manufacturers ncluding UK companies - in the 'Case for Quality' VIP programme. FPH makes ng obstructive sleep apnea, a condion which restricts breathing

Brian Schultz, FPH VP of quality afety and regulatory affairs, said that the VIP had enabled the company to achieve improvements in its quality system processes by ensuring staff inderstood the rationale for them.

"We really worked to communicate the purpose and efficiencies of each process. The appraisals have changed nindsets and helped us get better at what we do," says Schultz.

Other benefits included better resource planning and project management, improved data use and better control of performance object tives and targets.

A major plus for VIP enrollees is that they receive select regulatory relief from FDA to modify an existing product

usual 'review and inspection time' and educes the costly regulatory burden.

RACONTEUR.NET - 13

Asked what was the VIP's major ben fit, Kaplan replied: "This may sound strange, but I think it's the relationships he industry develops, both with the FDA and with each other. The VIP facilitates cross-industry conversations. We nave working groups and industry repesentatives on the programme's gov rning committee

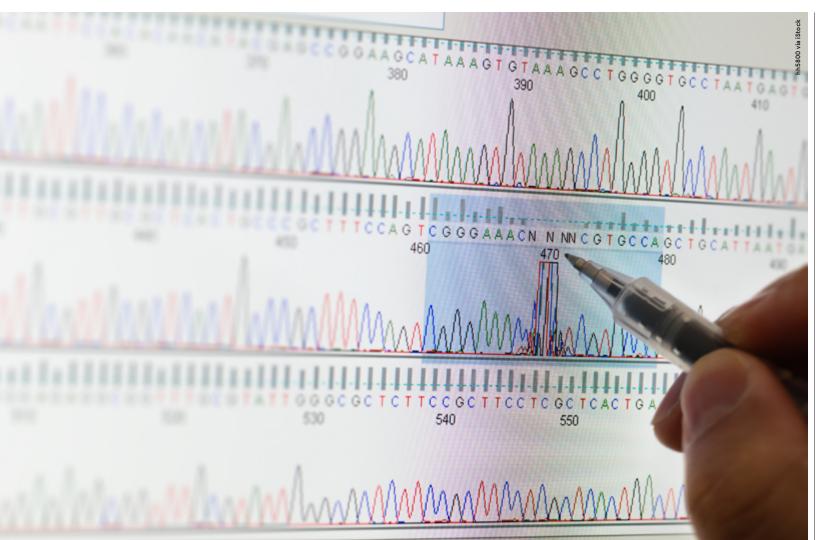
Fostering these kinds of relationships s especially beneficial when there is ignificant regulatory flux. "Look at the UK's MHRA, it is in the process of develping a new MedTech regulatory framework. This is a perfect example of when mpanies need to be working hand in nand with regulators," says Kaplan.

"VIP is a wonderful opportunity or them to get connected with their eers and identify solutions to chal enges they're all facing. To learn from ach other, as well as to be more col laborative with the agency. It's a win-

Results from the VIP demonstrate nat prioritising quality and collabora educed costs and improved patient or a stronger, safer medical device ndustry. As more companies join, VIP as the potential to redefine global

For more information please visit





Healthcare providers weigh the benefits and pitfalls of personalised preventive care

Personal health data could support a range of medical applications, boosting interventions and lessening the load on the NHS. But significant obstacles must be overcome

care. The benefits are clear: an indi- | shaping your health." vidual's health data can be used to According to Wilkins, harnessing establish their risk of future disease from clinicians and the public.

Preventive care has generated excitement in both the private and public sectors. For instance, an legislators alike, with the Conservaanalysis by The Health Foundation | tives and Labour both pledging to found that the term "personalised | expand personalised care in their prevention" was mentioned 30 2024 manifestos. But the technolotimes in policy documents pub- gy and systems necessary to deliver lished by The Department of Health | tailored healthcare have yet to be and Social Care since 2013.

Andy Wilkins is programme at Imperial College Business School | that enables users to track and manand founder of Future of Health, a age their health data – and a former personalised preventive health- the problem is a mindset barrier care. "Imagine knowing in advance | "It's not the way traditional medithat a chronic condition could be cine thinks." Critchlow explains. prevented or mitigated because "We're asking simple questions those involved in your healthcare How's the health of your skin?

K healthcare providers | understand how the interplay of | How's your sleep? From there we have long aspired to deliv- vour unique genetic, behavioural can steer people to have a lifestyle er personalised preventive and environmental factors are

health data will enable professionand prescribe more effective medials to move from treating symptoms calinterventions. However, success | to addressing root causes. "It's a will demand an attitude change | move towards a more humanised, anticipatory approach," he says.

The potential of such solutions is clear to health professionals and implemented widely.

Stephen Critchlow is founder and director for healthcare innovations | chairman of Evergreen Life – an app think-tank. He is optimistic about NHS pharmacist. He thinks part of

that means they're less likely to get disease in the future.'

If GPs had access to large pools of such data, they could identify trends associated with common health ailments in certain areas and potentially provide a better service. Wearables and app-based solutions also enable individual patients to take charge of their health metrics, which could motivate healthier life-

Such democratised tech also helps to redress historical biases in the health industry, which negatively impact certain demographics.

Imagine knowing in advance that a chronic condition could be prevented or mitigated

The technology has already been trialled. For instance, in 2021 residents of Wolverhampton were given fitness trackers and access to an app that prompted them to make healthier choices. Incentives such as vouchers or theme park passes were given to those who ate well and exercised regularly.

Widespread adoption in the health service of any such scheme is at least three years away, according to the NHS's technology roadmap.

"Structurally there are real barri ers to adoption," Wilkins explains. These include resource constraints, outdated IT systems, fragmented silos and the challenge of upskilling a healthcare workforce to use new technologies. But the most significant hurdle may be cultural, he says.

Wilkins adds: "Transforming and broadening national serviceoriented systems, such as the NHS, to include a wider set of community actors and emphasise prevention demands a fundamental change in collective attitudes."

Critchlow agrees. Thanks to constrained budgets and a reticence to take risk, he explains, the health service is far more likely to buy the data and insights of third-party apps than build its own capability.

A personalised preventive model would also require a change in patients' habits. So far, attempts to change behaviour through information alone have been unsuccessful. A 2019 study published in the British Medical Journal shows that while interventions in smoking have been successful, childhood obesity is still rising. Moreover, healthy life expectancies have fallen in the UK over the past decade.

"We need to create environments where individuals feel supported, not burdened, in taking ownership of their health," Wilkins says. "Patients have to be more involved, but systems must also become more empathetic to make this engagement meaningful and manageable.

Trust is key to any engagement involving personal health data. In 2022, a paper published by the Department of Health and Social Care acknowledged that to reach future aims, the public must trust the NHS to handle patient data in a way that is safe and secure. Although seven in 10 NHS patients (69%) trust the public health service to protect their information, only four in 10 (42%) trust third-party service providers, according to a 2023 survey by the Health Foundation. As the NHS will likely rely on private sector partners to deliver personalised preventive care, could an unwillingness to adopt app-based solutions hamper the rollout of this strategy?

This will depend on how the health service conducts private sec tor partnerships. Wilkins believes third-party service providers that can provide the technology to track, collate and analyse data will be integral to a functioning health service of the future.

But he stresses: "Partnerships between tech firms and the NHS must prioritise meaningful outcomes over market-driven interests, ensuring that the benefits of innovation are felt by all, not just a tech-savvy few."



Can wearable tech reduce bias in medical trials?

The development of effective medical interventions relies on data recorded in medical trials. Ideally, treatments would be tested across demographics. accounting for population differences in gender, age weight and ethnicity.

However "traditionally medical trials have lacked diversity among participants, with white males making up the majority of research cohorts", says Professor Esther Rodriguez-Villegas, director of the Wearable Technologies Lab at Imperial College London.

For example, a 2019 analysis of global Phase 1 oncology trials found that 62% of participants were Caucasian

"This leads to tools and treatments validated in these studies that may not be as effective for individuals outside the largest demographic," says Rodriguez-Villegas. She points to the use of pulse

oximeters during the Covid-19 pandemic as an example of bias in action. The tools used to read blood-oxygen levels were less effective on patients with dark skin tones, leading to some patients recording incorrect "safe" readings and receiving delayed or insufficient care. Well-designed wearable tech offers a solution to these problems. Rodriguez-Villegas

where patients wore technology that tracks sleep over several nights to collect data for treatments in sleep apnoea

recently conducted research

"It enables us to collect data over extended periods in natural environments.

providing a more authentic view of the patient's real-world experiences. Additionally, it yields patient-specific insights that were previously unattainable, as conventional methods only provide snapshots of physiological data in controlled settings."

Sleep-disorder trials have historically skewed towards white men. Continuous Positive Airway Pressure (CPAP machines) - used to treat sleep apnoea - and even treatments such as cognitive behavioural therapy for insomnia are therefore biased towards males. For instance, Rodriguez-Villegas explains that insomnia is often caused by an imbalance of hormones in women, which is often overlooked in treatments

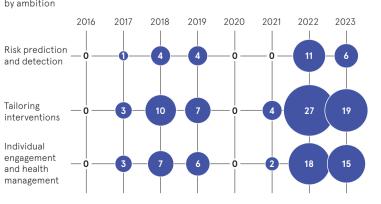
"Ensuring that diagnostic tools and clinical trials include a broad range of demographics could help to reduce disparities, fostering more equitable healthcare outcomes," she adds. "When universal design isn't feasible, developing devices with tailored calibrations for specific populations offers a safer and more effective approach.

But wearable technology is by no means a silver bullet. Relving on commercial products to glean medical data could lead to inaccurate readings owing to design or misuse.

"The UK government's proposal to deploy smart watches at large scale is an ambitious idea." savs Rodriguez-Villegas. "There are notable risks in relying on devices that were not conceived with medical use as their primary purpose and hence do not vet deliver consistent highquality data for clinical use.

THE FOCUS ON PERSONALISED PREVENTION IS GROWING

Number of references to personalised prevention in UK health policy documents by ambition





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