

NHS Digital COVID-19 Gold Report 29 March, 2021

INQ000083073_0001

Overview of <u>active</u> initiatives in NHS Digital's COVID-19 response – 29 March, 2021

COVID-19 strategic focus areas Initiatives NHS Digital is delivering Significant milestone reported in this update Work ongoing Booking systems: Data flows and Communication Point-of-Care Service Operations: Cyber Security Technology & Data workstream for 0 deliver national & dashboards: data Infrastructure: Operations Centre: systems: assure operational support local booking architecture, quality connectivity. for the end-to-end cybersecurity services performance and data Vaccinations (p.4-5) capabilities checks & visualisation NHSmail, devices vaccination service for Vaccination integrity Digital platform for Contain: public and Cyber Defence Service Operations: Deliver digital services for NHS Test Pillar 2 & 3 Testing: ensuring performant private access to Operations Centre: operation of Pillar 2 all out-of-hospital COVID-19 security services for and Trace (p.6) Test, Trace & Contain testing for the public dashboards testing infrastructure NHS.UK: up-to-date **Covid Therapeutics: Covid Status:** 111 First (ED NHS Pathways: new NHS App: over 1m 111 Online: Provide digital channels for citizen enable delivery of provide citizens with Streaming): enabling enhancements to health information and products and content users now accessing Covid-19 therapies by testing and/or efficient management to enable wider enable wider COVIDpersonalised health various digital quidance and triage (p.7) primary care vaccination status of patients in EDs COVID-19 response 19 response services via NHS App services for citizens Shielded Patient List SPL Data for Public **Risk Stratification:** Identify and protect vulnerable (SPL): developed & Health: private platform to support maintaining list of dashboards to more granular citizens (p.8-9) vulnerable patients COVID-19 risk profiles facilitate planning **COVID Oximetry** Long Covid: data **GP** Connect for "Bring Your own Enable remote and collaborative @home: enabling and digital capabilities Social Care: access Device" for Primary monitoring of high risk to enable treatment to GP records to Care: enabling GPs to care with systems and data (p.10) and info provision patients in their homes support direct care work remotely Social Care Data Secondary Care Situation Reports: Cancer: linking data Support planning with data, Medicines Data: Collection from Care collecting data for and performing analysis, and dashboards (p. 11) Management NHSE on COVID-19 analysis to support developing new data collection Systems patients/staff impacts planning & research Get data and insights to research Trusted Research NHS COVID-19 Novavax Trial: **RECOVERY** Trial: Enabling Research: Central PRINCIPLE Trial: Environment for Vaccine Registry: supporting Phase 3 Hospital and testing initiatives to Disseminator of GP primary outcome data communities & support clinical trials England (nominated facilitating recruitment trial for COVID-19 data for evaluating accelerate production Data for research for trial focused on (p.12) by SAGE) into clinical trials vaccine candidate treatments and improve access and planning older people Other infrastructure Connectivity: Authentication: NHS Mail for health Provide secure infrastructure and ☺ and cyber support: network upgrades and development of and social care: support additional capacity (p.13) e.g. Laptops, cyber additional virtual extensions within expansion and NHS and social care plans smartcard solutions upgrade of capability "Healthcare debt" Plan for recovery, restarting analysing activity, services and new needs referrals & outcomes

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Overview of completed initiatives in NHS Digital's COVID-19 response - 29 March, 2021

COVID-19 strategic focus areas Initiatives NHS Digital has delivered Work complete Technology & Data workstream for 0 Vaccinations (p.4-5) Service Design: Trace: digital Deliver digital services for NHS Test targeted reviews to infrastructure for ensure coherence contact tracing and Trace (p.6) across Test & Trace 111 First (EDDI): Find my NHS Self-Isolation Notes: NHS Login: secure Provide digital channels for citizen number: service to booking appointments identity verification for digital service to selfrapidly provide NHS from 111 telephony / access to App and certify for COVID-19 if quidance and triage (p.7) online into EDs number to patients other NHS services evidence required SPL Open Data: Vulnerable children: Mental Health Shielding Notes: Identify and protect vulnerable Q providing open data / support safeguarding Survey: impact of digital service to selfvisualisation of by sharing data with COVID-19 on children certify for COVID-19 if citizens (p.8-9) aggregated data nurses, health visitors and young people evidence required Video-consultations Video Consultations GP Connect: **Microsoft Teams** Electronic iPads for Social Enable remote and collaborative for Primary Care: for Outpatients: information sharing Deployment: Prescription Service Care: secure access assurance and rollout rollout/implementation across primary and deployment to 1.2m (EPS): electronic by to patient data for care with systems and data (p.10) to >90% of practices NHS Mail users default (Phase 4) support to NHSE urgent care direct care **Ethnicity Outcomes Diabetic risk** REACT1: data for **HOSTED:** monitoring 111 Open Data: e-Referral Support planning with data, Analysis: analysis to factors: linking data community of anonymised published open data / Dashboard: open analysis, and dashboards investigate high from national audit to prevalence testing household visualisation for data showing referral BAME fatalities trends during COVID support analysis (antigen testing) transmission by PHE COVID-19 triages Get data and insights to research Plasma Trial: UK Biobank: largeidentification of scale medical and communities & support clinical trials eligible (recovered genetic database for (p.11) COVID-19) patients health research **Returning Staff:** Your NHS Needs Nightingale Provide secure infrastructure and advice and technical You: survey for Hospitals: ු support additional capacity (p.12) support for recruitment of connectivity, technical onboarding returning clinicians / cyber Plan for recovery, restarting

services and new needs

NHS Digital's COVID-19 response – Support delivery of vaccinations (1 of 2)

NHS Digital is leading the Technology and Data workstream of the Vaccinations programme, providing data, analysis, and infrastructure to support delivery of vaccination programmes and facilitate post-vaccination monitoring

Initiatives	s Focus area Deliveries and impact		Successfully piloted text messaging as a more rapid and cost-effective mechanism		
Appointment Booking	Identifying Eligible People for Cohort 6* National Booking Service (NBS)	 (described in detail on page 9). The population risk assessment was completed on 14 Feb and loaded into the National Immunisation Management Service (NIMS) on 24 Feb Collected data from 156 sources to identify ~2m carers and established new data flows to pass this data to the National Immunisation Management system (NIMS), enabling these carers to be offered vaccinations as part of Cohort 6 (all flows in place by 5 March) Continued to enhance the national 'Book a coronavirus vaccination' service (Book a coronavirus vaccination - NHS (www.nhs.uk)). As of 21 March, over 6m people have used the service to book appointments at NHS vaccination centres and community pharmacies (bookings into PCNs and Hospital Hubs are currently managed directly by those providers). The service is also used to check patients into these vaccination and the manage oppointments. 	17:31 Image: Construction of the construction of the construction of the construction. 17:31 Image: Construction of the construction of the construction. NHS - You are now eligible for your free NHS coronavirus vaccination. Please book online at https:// www.nhs.uk/covid-vaccination or by calling 119. Thu 11 Mar, 18:80 Thu 11 Mar, 18:80 NHS vaccine booking service: You are eligible for a free COVID-19 vaccination because of an underlying health condition. The vaccine is the best way to protect yourself from COVID-19. If you haven't already booked with a local GP you can book now at https:// www.nhs.uk/covid-vaccination or by calling 119. Image: Image		
	Call and Recall Service	 Continued to manage service that sends vaccination letters to eligible citizens and issues reminders to people that did not attend or book appointments. As of 26 March, 15m letters and 4m text messages have been issued. Focus now is on completing invitations for cohort 9 (people aged 50-54) and on sending reminders to those who have not yet booked a vaccination appointment A text messaging service has been successfully piloted and is now being used in parallel with letters as a more rapid mechanism for notifying people of their eligibility for vaccination 	Messages from NHSVaccine are tailored according to the reason an individual is eligible for vaccination (JCVI) has prioritised vaccination for specific cohorts based on increased risk from COVID-19 (Priority groups for coronavirus (COVID-19) vaccination: advice from the JCVI, 30 December 2020 - GOV, UK (www.gov.uk)		

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NHS Digital's COVID-19 response – Support delivery of vaccinations (2 of 2)

NHS Digital is leading the Technology and Data workstream of the Vaccinations programme, providing data, analysis, and infrastructure to support delivery of vaccination programmes and facilitate post-vaccination monitoring

Initiatives	Focus area	Deliveries and impact	Vaccination information has been added to the Summary Care Record Application (SCRa) to
	Summary25 March enablingCare Recordnew tab is only disApplicationavailable within 48(SCRa)As of 25 March, th	 Delivered new 'COVID-19 Vaccination' tab in the SCRa on 05 Feb and in SCRa 1-click on 25 March enabling authorised users to view a patient's coronavirus vaccination history. The new tab is only displayed if a patient has had at least one vaccination and is usually available within 48h after vaccination event information is entered into point of care systems. As of 25 March, the new tab in SCRa had been viewed over 33k times across 1.3k care settings, with the majority of views in provider trusts and community pharmacy sites 	First dose of Covid-39 vaccine First dose of Covid-39 vaccine Date was The 13 Over 2002 23:49 Vacie Houtize Vacie Houtize Organization Adverse reactions/in proceed within 15 minutes of administering the vaccine. Readow (1) week reaction(s) week re
Data Access	Adverse Reactions	 Delivered new data flow to GP IT systems on 18 March to enable data on adverse reactions to be viewed in GP records 	Nexation Denotpins [1] NRVBAD Bit2XX MartiXXxx QOMd yFl kxOBupc gMtor2 DSUJGRiss sox u3HUDGF0 Secenty [1] mild Catable Agent [] anidi Catable Agent [] allergy Unclaimed Type [1] allergy Verificatio Satur [] uncertifiend Extension [] Unclaid MartiXXxx QOMd yFl kxOBupc gMtor2 DSUJGRiss sox u3HUDGF0 Extension [] Uncertifiend Extension [] Unclaid MartiXXxx QOMd yFl kxOBupc gMtor2 DSUJGRiss sox u3HUDGF0
	Reporting on Local Performance	• Delivered tactical solution on 23 March to provide GPs and other stakeholders with information on vaccination events for their practices. Work on the strategic reporting solution is underway in conjunction with stakeholders	Creat (1) 20200107 Eccss Information Site of Vaccination Right arm Roard Vaccination Right arm Roard Vaccination Basic Structure Community heath services (gualifier value)
Data Quality	Data and Dashboards	 Delivered minimum viable product (MVP) for the private data quality dashboard on 18 March. This dashboard displays results of reconciled vaccination event data across all vaccination systems and enables proactive resolution of any differences 	The new tab will be displayed only when at least one vaccination has been administered. Information will usually be available within 48h of
Communication Infrastructure	Connectivity	 Continued to work closely with NHS England and telecommunications suppliers to ensure that fixed connectivity, WiFi and back-up 4G connections are available for vaccination centres, primary care sites and community pharmacies. As of 26 March, NHS Digital had facilitated procurement and overseen installation of communication infrastructure to 124 sites with work underway with a further 22 sites. Deployment is being managed to align with vaccine supply 	a vaccination event being recorded

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A NHS Digital's COVID-19 Response – Deliver digital services for NHS Test and Trace

NHS Digital is the primary digital delivery partner for Testing within NHS Test & Trace, supports Contain via a series of dashboards plotting the infection spread within the UK, and provides IT service management and cyber security management for Testing and Contain

Initiatives	Focus area	Deliveries and impact	NHS Digital has worked with partners to
Surveillance	Variants of Concern	 Supported enhanced surveillance of variants of concern by expanding data capture at test registration on 29 Jan (e.g. new questions to record previous positive test results) and establishing a direct feed to the Wellcome Sanger Institute, the largest genome sequencing hub in the UK, on 9 Feb. These changes enable prioritised gene sequencing of samples of interest and enable future work to enable particular samples to be identified at point of registration 	enable the digital infrastructure for Testing to process 10m results per day
Border Control	Mandatory Testing of International Arrivals	 Delivered new digital capabilities on 15 Feb to support mandatory testing of international arrivals including integration with a 3rd party hotel booking system, a new ordering service for self-testing kits, and capture of additional data at registration. These changes enable testing of individuals isolating at government quarantine hotels ('Red' channel) and those self-isolating at an accommodation of their choice ('Amber' channel) 	
Asymptomatic Testing	Testing for Schools	 Launched new service on 04 March for ordering lateral flow device (LFD) tests for home use (<u>https://www.gov.uk/order-coronavirus-rapid-lateral-flow-tests</u>). This service is a key enabler of the safe return to schools and is for use by anyone in a household, childcare bubble or support bubble if at least one member is a school pupil or works in a school (or related occupation) Delivered additional changes to the Asymptomatic Testing Site (ATS) platform to support the return to school including changes that enable schools to more easily report LFD test results on 29 Jan, bulk register LFD tests on 15 Feb, and bulk order LFD tests on 18 Feb 	This increased capacity is a key enabler for expanding asymptomatic testing for schools and workplaces
	Self-Test Results Reporting	 Continued to enhance the online service for self-reporting test results (<u>https://www.gov.uk/report-covid19-result</u>): integrated the service with NHS Login on 4 Feb reducing the time required to report a result by over 50%; provided users with a Contact Tracing token from 11 March, thereby ensuring isolation periods start at point of a positive LFD test; expanded service to include Wales NHS staff on 11 March; implemented capture of ONS occupation codes on 18 March to enable surveillance by sector 	
Increasing Testing Capacity	Scaling the Service	 Completed scaling work required for the digital service to process up to 10m results per day and over 1m results per hour. At peak, the service successfully processed over 2m results within 24h 	

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NHS Digital's COVID-19 response – Provide digital channels for citizen guidance and triage

Providing digital channels for citizens to access information and guidance, self-manage and be routed to the most appropriate care, minimising contact and reducing the burden on clinical staff

Initiatives	Focus area	Deliveries and impact	NHS Digital's user research teams are actively	
COVID Therapeutics	Primary Care	 Supported NHS England in designing a proposal for delivering therapeutics to people who have tested positive for COVID-19 through primary care. The proposal was approved on 12 March and work is now underway to establish the enabling digital infrastructure: functionality to communicate potential eligibility following a positive test, changes to enable GP's to provide proactive follow-up, and enhancements to NHS 111 Online to support patient identification and facilitate prescriptions There are currently no therapies approved for treating COVID-19 outside of hospital. This preparatory work is being initiated now to enable more rapid mobilisation of delivery channels as soon as novel therapies are approved for treatment of COVID-19 patients in primary care. Additional work will be required once specific treatments are approved for use 	working with different groups to understand barriers to access and use of digital solutions People who are digitally excluded 22% of the population (11.9 million) do not have the digital skills needed for everyday life in the UK (Good Things Foundation, 2019).	
COVID 'Status'	Data and Infrastructure	 Stood up a team to respond to requests from system partners for support of services for providing citizens with their vaccination and/or testing status to support emergent domestic and international policy 	People with cognitive or physical disabilities Trans and non-binary people 21% (14.1 million) of the population have a disability (Department of Work & Pensions 2020). 21% of trans people felt their needs were ignored when they accessed, or triad accessing	
Improving Access to Services	User Research	 NHS Digital actively employs User Research to determine how we can ensure digital services are accessible to those most impacted by COVID-19 and those most likely to encounter barriers to using those services (see graphic). A wide range of research methodologies are used including surveys, observation, and usability testing to provide an evidence base that informs initial service design and ongoing service delivery. Over 1.5m people have participated in user research over the past year 	A Pensions 2020). Itried accessing, healthcare services (National LGBT Survey, 2017). People from Black, Asian and minority ethnic communities* 14% of the population (7.9 million) identify themselves as being in a	
	Self-Isolation Notes	 The 'Get an Isolation Note' service has won the Civil Service Awards 2020's Resilience & Rapid Response Award. The service was launched on 20 March 2020 within 10 days of the original commission in close partnership with DWP, DHSC and NHSX. As of 22 March, 2.8m notes have been generated to enable people to self-certify their absence from work due to COVID-19, thereby, reducing burden on GPs, protecting access to benefits, and supporting employment (Get an isolation note - NHS (111.nhs.uk) 	BAME groups (office of National Statistics, 2011). User research with over 1.5m people is providing a real-world evidence base for effective design and delivery decisions	

Q NHS Digital's COVID-19 response – Identify and protect vulnerable citizens (1 of 2)

Identifying and protecting vulnerable citizens, to ensure that they can be shielded or receive additional support

Initiatives	Focus area	Deliveries and impact	Since it was first published on 23 March, 2020
Shielded Patient List (SPL)	ldentifying vulnerable citizens	 The Shielded Patient List (SPL) identifies patients at the highest risk from COVID-19, based on criteria set by the Chief Medical Officer for England (CMO). Since 23 March 2020, NHS Digital has delivered weekly iterations of the SPL to partner organisations so support can be targeted to clinically extremely vulnerable people (CEV) The list was significantly expanded on 15 and 22 February to include ~1.7m people identified as being at increased risk from COVID-19 through a population-level risk assessment using the QCovid risk prediction model (described on page 9). There are now ~3.8m people on the SPL NHS Digital will continue to produce the list after the pause to national shielding advice on 31 March to enable ongoing support by partner organisations in health and local government and to facilitate future support for CEV, should this be required 	NHS Digital has delivered 50 iterations of the Shielded Patient List (SPL) which is disseminated to numerous public bodies involved in providing shielding services
	Communicating with vulnerable citizens	 Continued to issue advice and guidance to CEV with 2.3m letters and 850k emails issued on 21 Feb to communicate the extension of national lockdown to 31 March. 3.8m letters and 1.4m emails were issued from 15 March to advise CEV about support that will be available once the national shielding advice pauses on 31 March 	The SPL remains an important enabler for provision of targeted support to ~3.8m clinically extremely vulnerable people
	Dashboards	• Expanded the private SPL dashboards used by Directors of Public Health to support CEV on 18 Feb to include vaccination data. These dashboards provide views of first and second vaccination doses for CEV in a local area, broken out by age and ethnic category, enabling targeted interventions to support take-up of COVID-19 vaccination by these patients	
	Vitamin D	 Completed matching of requests for free Vitamin D supplements to people on the SPL. As of 22 Feb, when the scheme closed, ~460k validated requests had been referred to DHSC for fulfilment 	
	Get a Shielding Note	 Implemented changes to the 'Get a Shielding Note' service to align with the end of shielding advice. From 31 March new 'Shielding Notes' can only be generated retrospectively and the service will be paused from 30 April. As of 26 March, the service has enabled over 15k CEV to generate a note for their employer or the Department of Work and Pensions confirming they had been advised to shield 	

Q NHS Digital's COVID-19 response – Identify and protect vulnerable citizens (2 of 2)

Identifying and protecting vulnerable citizens, to ensure that they can be shielded or receive additional support

Initiatives	Focus area	Deliveries and impact	NHS Digital successfully delivered a population-level
Initiatives	COVID-19 Population	 At the request of DHSC, NHS Digital has developed digital infrastructure to support a more sophisticated approach to identifying individuals with increased vulnerability to COVID-19, now that clinical determinants are better understood. This infrastructure uses the University of Oxford's QCovid risk prediction model, which assesses an individual's risk based on a combination of characteristics (including age, sex, ethnicity, BMI, and specific medical conditions). DHSC commissioned Oxford University to develop the QCovid model and it has been validated by the Office for National Statistics (ONS) Successfully used the new infrastructure for population-level risk assessments for adults in England, identifying an additional 1.7m people at increased risk of adverse outcomes from COVID-19 that were not previously included on the Shielded Patients List (SPL). This has enabled these individuals to be prioritised for vaccination as part of Cohort 6* and to be 	NHS Digital Successfully delivered a population-level risk assessment for adults in England, enabling ~1.7m people at increased risk from COVID-19 to be prioritised for vaccination and access support via the Shielding Programme (https://digital.nhs.uk/coronavirus/risk-assessment/population COVID-19 Population Risk Assessment We used the University of Outership (Covid® risk peddene model to identify additional people to be added to the golded Patient List (SSL) Page contents Name additional added to the State and what to be Provided risk Assessment from the state and the to be Provided risk Assessment and the COVID 9 Population Risk Assessment rest identified at high take the state additional people has added to the state added to the to be Provided Risk Assessment Bulk and additional people has added to the state additional additional people has added to the state additional additional people has added to the state additional additional people has added to the to be Provided Risk Assessment Bulk and additional addi
Risk Stratification		 eligible for additional support through addition to the SPL from 14 Feb (vulnerable individuals below the age of 70) and 22 Feb (vulnerable individuals above the age of 70). These additions were then subject to review by GPs and Trusts through standard SPL clinical review processes Delivered the COVID-19 Clinical Risk Assessment Tool for authorised users on 16 Feb, which is also based on the QCovid model. The tool generates absolute and relative risk scores for 	Head to condition and trademin We have used (Dacidity for to drave) of COVED 19 replation 188. Assessment 1986. Gentational dialocs to estimate the risk of a person calching convariant and becoming serically used (Dacidity for drave). With has been influences to estimate the risk of a person calching convariant and becoming serically used (Dacidity for drave). With has been influences We have used patient dials had restrictly to destribute the risk of a person calching convariant and becoming serically used. More table excitic transmed We have used patient dials had restributy to destribute the risk of the property where high table the risk of the property where high table the risk of the person of the risk of the ri
		 individuals to enable clinicians to hold tailored conversations with patients about their specific risks from COVID-19 and to facilitate clinical review of additions to the SPL (<u>COVID-19</u> <u>Clinical Risk Assessment Tool - NHS Digital</u>) Patients were added to the SPL when their risk assessment results placed them in the top 2% of people at highest risk of catching and dying of COVID-19. The threshold was agreed by England's Chief Medical Officer, in consultation with senior clinicians, based on research conducted by the University of Oxford. To facilitate clinical review of patients whose predicted risk did <u>not</u> meet this threshold, NHS Digital delivered the COVID-19 Population Risk Assessment Viewer on 16 March, which enables GPs to view patients registered at their 	NHS Digital has also delivered new tools to support clinical review of patients' risk and published detailed information on how the risk assessment was completed, including which data sets were used and clinical code mappings (COVID-19 Population Risk Assessment - NHS Digital) * The Joint Committee on Vaccination and Immunisation (JCVI) has defined Cohort 6 as people between the ages of 16 and 64 with underlying health conditions which put them at higher risk of serious disease and mortality
		Assessment Viewer on 16 March, which enables GP's to view patients registered at their practice whose risk assessment results were below the agreed threshold	conditions which put them at higher risk of serious disease and mortality from COVID-19 (Priority groups for coronavirus (COVID-19) vaccination; advice from the JCVI, 30 December 2020 - GOV.UK (www.gov.uk)



NHS Digital's COVID-19 response – Enable remote and collaborative care

Making data and systems available to enable remote and collaborative working by health and care staff, minimising transmission and managing strained capacity

Initiatives	Focus area	Deliveries and impact	Clinical codes are now available for recording 'Long Covid'	
Remote Digital Care	COVID Oximetry@ home	 Continued to support NHS England's (NHSE) programme to monitor higher risk patients' oxygen levels in their homes, following a positive COVID-19 test Delivered enhancements to daily data feeds to COVID Oximetry@Home providers on March 5. These changes enable earlier recruitment by improving the speed with which providers are notified of new patients with a positive COVID-19 test who are over 65 and/or clinically vulnerable Increased coverage of weekly data collection to over 80 CCGs, covering over 13k patients. This data is utilised to produce weekly management information reports for NHS England's COVID Oximetry@Home programme and regional leads and will be shared for evaluation 	diagnoses and referrals in both primary and secondary care SNOMED code Description 132502100000106 Signposting to Your COVID Recovery (procedure) 132503100000108 Referral to post-COVID assessment clinic (procedure) 132504100000104 (procedure) 132516100000102 Post-COVID-19 syndrome 132517100000109 Acute COVID-19 infection 132518100000106 Orgoing symptomatic COVID-19 132512100000105 final scale grade (observable entity) Post-COVID-19 Functional Status Scale structured interview 132513100000107	
Long Covid	Data and Measurement	 Continued to support NHSE's 'Long Covid' programme, which is coordinating design and delivery of services for patients who are experiencing long-term effects from COVID-19 Surveyed providers of 'Long Covid' assessment services to identify opportunities to improve completion rates and quality of responses for the weekly clinic activity report. This report captures data on patient volumes, activities undertaken when assessing Long COVID-19 patients, and patient demographics. Findings 	Assessment using Newcastle post-COVID syndrome Follow- up Screening Questionnaire (procedure) Assessment using COVID-19 Yorkshire Rehabilitation 132508100000107 Screening tool (procedure) Assessment using Post-COVID-19 Functional Status Scale patient self-report (procedure) Assessment using Post-COVID-19 Functional Status Scale patient self-report (procedure) Assessment using Post-COVID-19 Functional Status Scale patient self-report (procedure) Newcastle post-COVID syndrome Follow-up Screening Questionnaire (assessment scale) COVID-19 Yorkshire Rehabilitation Screening tool (assessment scale) Post-COVID-19 Functional Status Scale patient self-report (assessment scale) Post-COVID-19 Functional Status Scale structured interview (assessment scale) SNOMED (primary care) and ICD (secondary care) codes refer to 'post Covid-19 syndrome' in line with NICE guidance*	

* For more information please refer to Rationales | COVID-19 rapid guideline: managing the long-term effects of COVID-19 | Guidance | NICE

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NHS Digital's COVID-19 response – Intelligence to support planning

• Providing data, analysis & dashboards to help the system understand the prevalence and spread of infection & manage capacity

Initiatives	Focus area	Deliveries and impact	NHS Digital made a new secondary care medicines data set available via DARS on 24 Feb, covering ~9% of prescribing activity in NHS Trusts in England (Electronic Prescribing and Administration (EPMA) Data in Secondary Care under the COVID-19 Direction - NHS Digital) Electronic Prescribing and Administration (EPMA) Data in Secondary Care under the COVID-19 Direction - NHS Digital) Electronic Prescribing and Administration (EPMA) Data in Secondary Care under the COVID-19 Direction Swe Deveryon and Administration (EPMA) Data in Secondary Care under the CovID-19 Direction Swe Deveryon and administration years. This data retaining a manual formation with the secondary data retaining a mediated and index.	
Data Analysis	Impact of Shielding on Clinically Vulnerable	 Supported National Audit Office (NAO) review of the effectiveness of the Shielding Programme in protecting the clinically extremely vulnerable (CEV). Developed methodology to identify care home residents on the Shielded Patients List and linked that information with hospital admission and mortality data sets to assess impact of COVID-19 on care home residents. Provided analysis to the NAO on 08 December and the NAO published their report on 10 Feb (Protecting and supporting the clinically extremely vulnerable during lockdown - National Audit Office (NAO) Report 		
Data Provision	Electronic Prescribing and Administration (EPMA) Data in Secondary Care	 Made secondary care medicines data available through NHS Digital's Data Access Request Service (DARS) on 24 Feb for use in planning and research. The data is collected daily and covers around 9% of total prescribing activity in secondary care from Jan 2019 to present, providing a full year of pre-COVID-19 prescribing data as well data for the first year of the pandemic. Data for a further 6% of prescribing activity will be available from summer 2021. This data collection was accelerated to support the COVID-19 response by enabling a better understanding of the role of medicines used in treatment of COVID-19 patients in secondary care (e.g. dexamethasone) and provides an additional dataset for research 	Page contents The purpose of this data collection Train data The purpose point finethis The p	
	Vaccine Data	 Made COVID-19 vaccination events and adverse reactions data products available through DARS on 19 Feb, further increasing the range of COVID-19 datasets available for planning and research 	There are now 10 COVID-19 datasets available via DARS including testing data, vaccination data, and GP data (Data Access Request Service (DARS) products and services - NHS Digital)	
Data Collection	Social Care	 Completed daily data collection from Social Care Management systems. ~7% of Social Care providers participated in the collection of 70k data items, including key demographic data and COVID-19 status for both social care receivers and social care providers. While the collection will cease on 31 March, it has provided useful trend analysis for the sector and successfully demonstrated that data can be collected directly from these systems. NHS Digital is working with DHSC and partners to ensure lessons learned from this collection are integrated into the strategy for social care data collection 		

NHS Digital's COVID-19 response – Enable research and clinical trials

- Facilitating the sharing and availability of data and analyses to support research, enabling evaluation of different response interventions and increasing understanding of COVID-19 transmission, immunity and clinical outcomes
- Accelerating COVID-19 Drug and Vaccine clinical trials

	Initiatives	Focus area	Deliveries and impact	As of 13 March, more than 1m people have taken part		
		Trusted Research Environments	 Continued to provide access to data in Trusted Research Environments (TREs) for nationally prioritised COVID-19 research questions. TREs allow researchers to safely analyse de- identified data in approved systems, supported by collaboration tools 	in COVID-19 research across the UK. NHS Digital is proud to be part of this important work, which has helped deliver vaccines, treatments and improved car		
	Enabling Research		 Published the first report using NHS Digital's TRE for whole population research on COVID- 19 and cardiovascular disease on 23 Feb with researchers from Health Data Research UK (HDRUK) and the British Heart Foundation Data Science Centre* 	NIHR National Institute for Health Research		
	Nesearch	Accelerating Researchers' Access to Data	 Conducted a further researcher education sessions on 15 and 17 March for 175 attendees with the National Institute of Health Research (NIHR), HDRUK, MRC Regulatory Support Centre and the Health Quality Improvement Partnership. These sessions focus on improving awareness of the available data assets, access routes, and approval requirements so that researchers can make better use of health and social care datasets 	total participants		
-	Enabling Clinical Trials	RECOVERY	 Continued to support recruitment and provide data to the RECOVERY trial through NHS DigiTrials. The trial reported on 11 Feb that use of Tocilizumab reduces COVID mortality for hospitalised patients with severe COVID-19, shortens their time to discharge and reduces the need for mechanical ventilation** 	#KesearchvsLovid		
		NHS COVID-19 Vaccine Research Registry	 Continued to operate the NHS COVID-19 Vaccine Research Registry, in partnership with the NIHR, to facilitate recruitment into vaccine trials and accelerate the identification of safe and effective vaccines As of 26 March, around 460k people have registered an interest in being contacted for recruitment into vaccine trials with 144k eligible volunteers invited into one of six trials On 11 March, the UK Phase 3 trial of the Novavax candidate vaccine reported further positive results*** Around half of the participants were recruited through the Vaccine Registry 			

* A pre-print report is available from: https://medrxiv.org/cgi/content/short/2021.02.22.21252185v1

** Tocilizumab reduces deaths in patients hospitalised with COVID-19 - RECOVERY Trial

*** Novavax Confirms High Levels of Efficacy Against Original and Variant COVID-19 Strains in United Kingdom and South Africa Trials | Novavax Inc. - IR Site

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] NHS Digital's COVID-19 response – Provide infrastructure and support additional capacity

Providing secure infrastructure and supporting additional care capacity through support and logistics for cross-system data access, fast authentication of new users, Nightingale hospital facilities and connectivity to private providers

Initiatives	Focus area	Deliveries and impact	NHS Digital's Cyber Securit		
Cyber	Cyber Security Operations Centre (CSOC)	 Responded to significantly increased level of cybersecurity risk through heightened threat intelligence and additional proactive monitoring for potential threats across the NHS estate. This is in addition to security measures normally deployed to protect NHS organisations, including NHS Secure Boundary and Protective DNS Issued 3 high severity alerts in Feb and March. While NHS organisations were not specifically targeted, the CSOC led on ensuring potential vulnerabilities were rapidly resolved by identifying exposed devices and working closely with organisations to address vulnerabilities and assure their assets. This additional support included deployment of NHS Digital's specialist resources to several NHS sites to facilitate remediation activities 	Trange of products and services the systemic cyber risk across health Threat hunting Identifying Compromised Protective monitoring Threat intelligence NHS Secure Boundary: Windows 10: Advanced threat protection Bitsight Measure levels sould on the sould on th	ss health and	social care Vulnerability assessments VMS: Monitor and investigate local security vulnerabilities Training Specialist cyber security training Simulated phishing: Local deployment of
	COVID-19 Cyber Technical Remediation Programme	 Provided cyber vulnerability identification and remediation support to 180 Trusts in response to risks that have emerged or have been exacerbated by COVID-19. Support has been offered to the remaining Trusts but has not yet been requested Completed Secure Backup Reviews for 112 Trusts, to review alignment to NCSC Guidelines on Backup, identify backup-related risks and provide remediation support Provided guidance and advice to all Trusts regarding steps to take to improve access controls in relation to backups. £800k funding provided to 83 Trusts for Privileged Access Management solutions which reduce the risk of unauthorised users accessing backups 	Technical remediation DSC on-site assessment Cyber awareness: Awareness tookit for organisations to deploy quickly and easily Cyber security threats	and governance reporting Cyber associates: A network of cyber	simulated phishing emails Specialist security services: Bespoke information risk assurance
Connectivity	Upgrades to offset Winter Pressures	 Confirmed that upgrades completed for all 353 sites identified as being at risk of having insufficient network bandwidth to cope with increased demand over the winter. NHS Digital worked with NHSX to identify the organisations with the greatest need and provide financial support to increase their network capacity. The NHS organisations involved have indicated they will maintain the upgraded connectivity 			

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Thank You





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