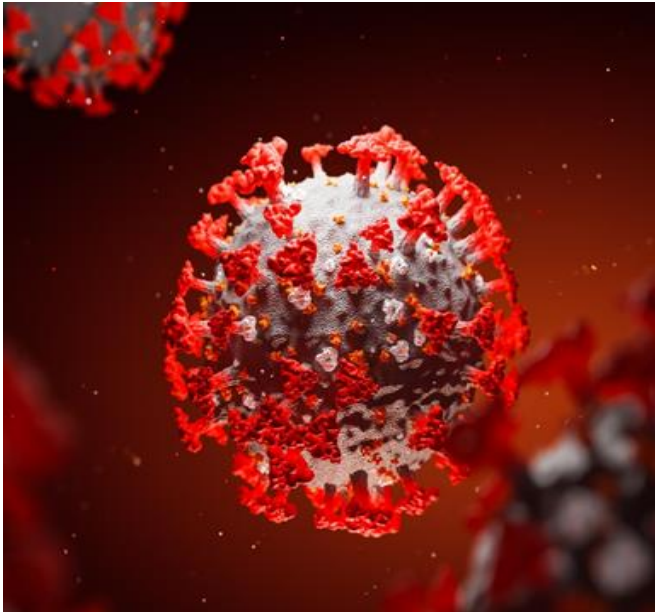


UK Living Kidney Donation Network forum

24th March 2021



Hot topics

**COVID-19 Vaccines
and role in Living
Kidney Donor
Transplantation**

Overview of COVID vaccine landscape

- How can we get a vaccine so fast?
- How can we be comfortable it is safe?
- Vaccine Hesitancy
- Uptake of Vaccine across the Renal community
- Resources for staff and patients

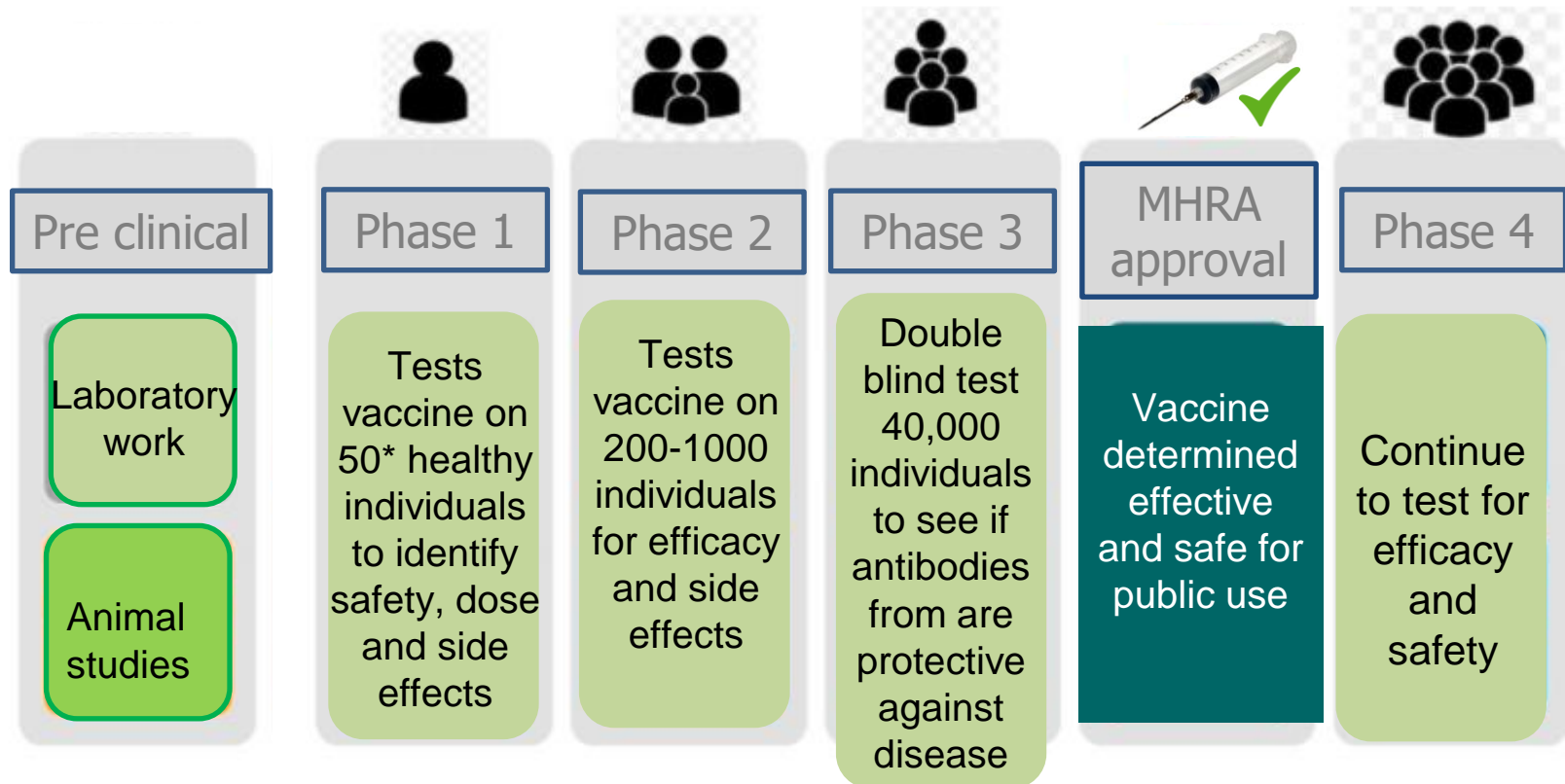
Professor Caroline Wroe

Consultant Nephrologist, South Tees Hospitals NHS Foundation Trust

UK Living Kidney Donation Network Chair

Clinical Director NIHR Clinical Research Network North East and North Cumbria

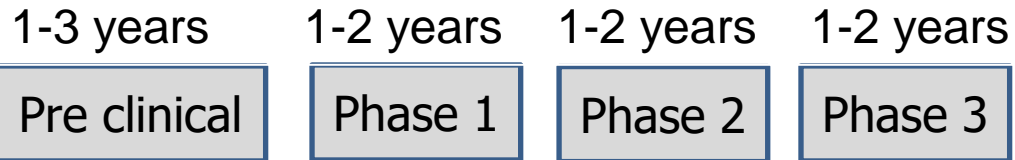
How do we normally test a vaccine?



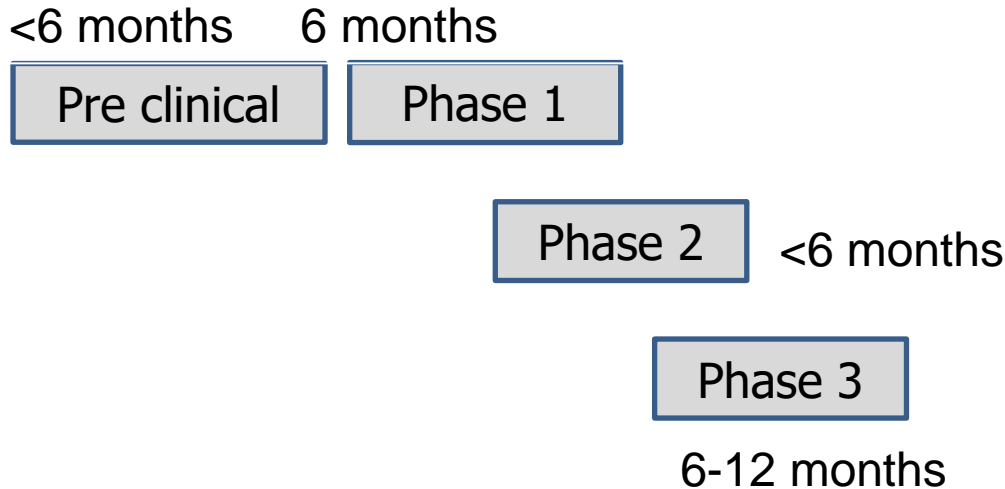
*Numbers are approximate and will vary on the study

How is this process different in the COVID pandemic?

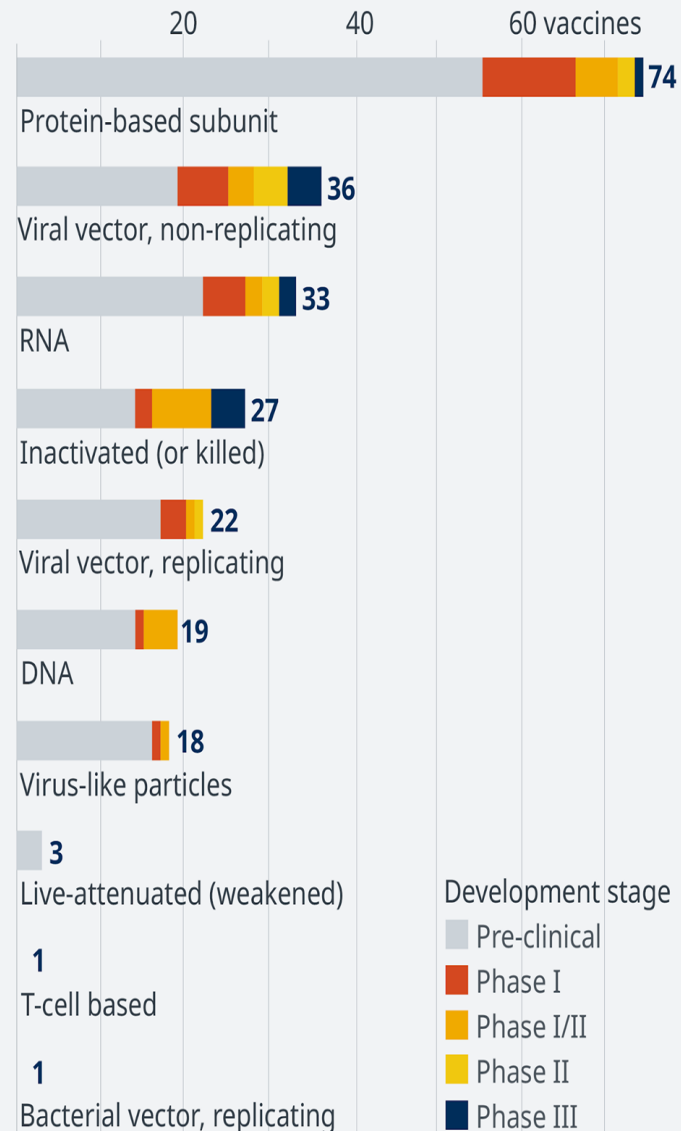
Typical time frame



Covid vaccine time frame



Variety of approaches among COVID-19 vaccine candidates



How many vaccines are being tested and why?

International

Emerging technologies at the forefront of vaccine design

>230 prototypes approved by WHO

<20% of vaccine ideas make it past early phases

About 40 reviewed by UK as serious contenders

About 12-15 likely to be trialled here

Current UK research activity

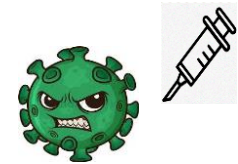
NIHR/NHS national vaccine research registry (457,000)

Currently 20 active clinical trials in the UK
35,613 participants

How do the COVID vaccines being used in the UK compare?

Vaccine	Type	Number of doses needed	storage	Phase III efficacy against moderate to severe COVID	Licenced in the UK
Pfizer/BioNTech	mRNA	2	-80	90%	Yes
Oxford Astrazenica	Adenovirus	2	Fridge	62-90%	Yes
Moderna	mRNA	2	-20	95%	Yes
Novovax	Adenovirus	2	Fridge	89%	tbc
Johnson & Johnson	Adenovirus	1	Fridge	66-86%	Not yet

Vaccine Hesitancy



The World Health Organization (2014) defines it as ‘a behaviour, influenced by a number of factors including issues of **confidence** (level of trust in vaccine or provider), **complacency** (perception of risk and severity of the disease), and **convenience** (access)’¹.

Based on the first stages of vaccine rollout in over 70s, there is emerging evidence of inequalities in uptake of the Covid-19 vaccine in the UK; with marked reductions in uptake among²:

- Eligible people with learning disability
- Eligible people with severe mental illness
- Those of non-White ethnicity, and especially low among those of Black ethnicity
- Those from more deprived backgrounds

How should we approach this?

1. Targeted and locally led communications
2. Using local insights and interventions to engage vulnerable and marginalised groups
3. Limiting physical barriers to access
4. Data and surveillance

1. https://www.who.int/immunization/sage/meetings/2014/october/1_Report_WORKING_GROUP_vaccine_hesitancy_final.pdf

2. <https://opensafely.org/research/2021/covid-vaccine-coverage/>

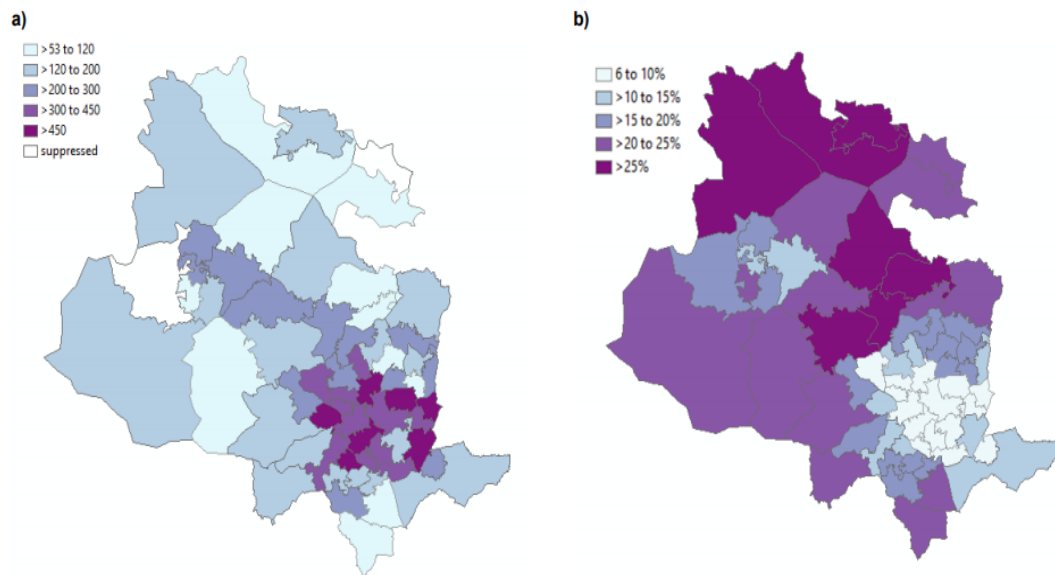
Evidence from Bradford

Figure 2: Directly Standardised Mortality Rate per 100,000 and proportion vaccinated in Bradford District

a) Directly standardised mortality rate per 100,000 population where cause of death was Covid-19 – up to december 2020

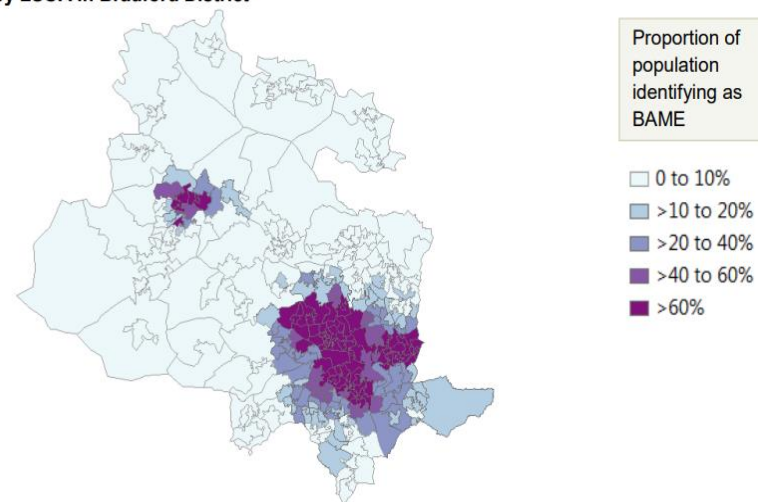
b) Proportion of total population (all ages) vaccinated with dose 1 up to 11 Feb 2021.

Data source: Deaths data – PCMD database, Vaccine data – Covid situational dashboard PHE extracted 11/02/2021. All data are provisional.



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Figure 5: Proportion of the population identifying as Black, Asian or minority ethnic by LSOA in Bradford District



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Nomis (2011) *Nomis - KS201EW - Ethnic group- 2011 Census, Nomis*. Available at: <https://www.nomisweb.co.uk/query/construct/submit.asp?forward=yes&menuopt=201&subcomp=> (Accessed: 12 May 2020).

<https://www.bradfordresearch.nhs.uk/wp-content/uploads/2021/03/20210223-COVID-mortality-and-vaccination-maps-v2.0.pdf>

Evidence from North East and Yorkshire

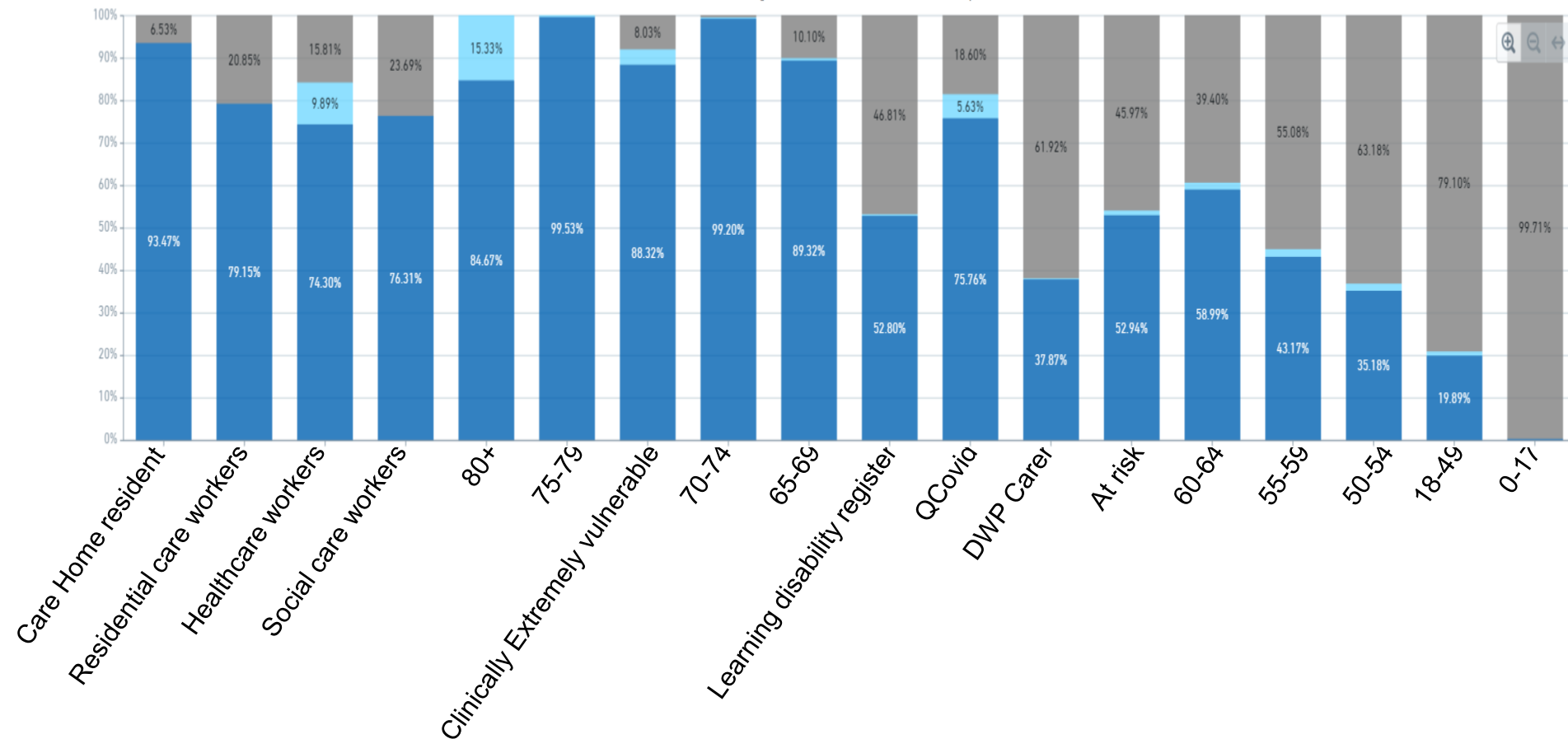
Cohorts Detailed Cohorts

Percentage Absolute

Uptake by Cohort - Percentage

Use paging

Remaining Second Dose First Dose Only



Renal Community

Where do our patients fit within the UK COVID 19 vaccination plan?

Table 2 – Priority groups for vaccination advised by the Joint Committee on Vaccination and Immunisation

Priority group	Risk group
1	Residents in a care home for older adults Staff working in care homes for older adults
2	All those 80 years of age and over Frontline health and social care workers
3	All those 75 years of age and over
4	All those 70 years of age and over Clinically extremely vulnerable individuals (not including those under 16 years of age)
5	All those 65 years of age and over
6	Adults aged 16 to 65 years in an at-risk group (Table 3)
7	All those 60 years of age and over
8	All those 55 years of age and over
9	All those 50 years of age and over

CKD 3 and 4 , lupus,
all diabetics, BMI >
40

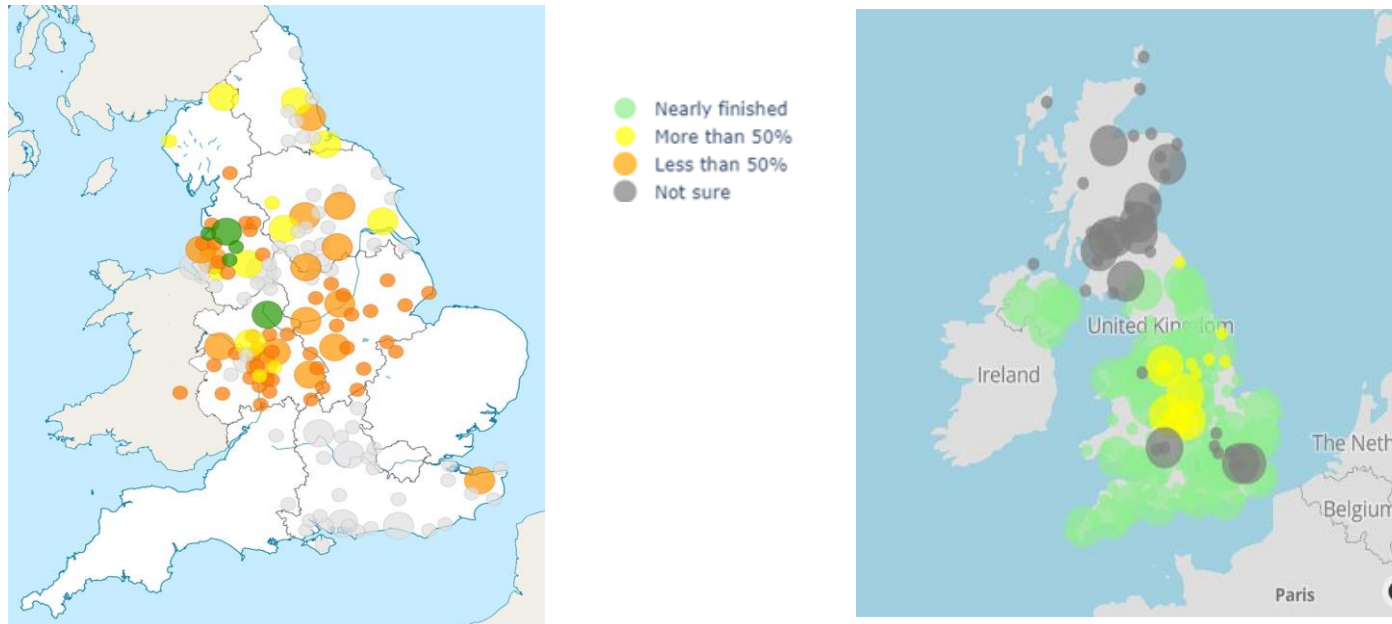


HD, PD, TX, CKD 5 and
IS patients

Living Kidney
donors

Approaching vaccine hesitancy in the Renal Community

-Data and surveillance



- KQUP heat map
- Renal Registry data 42 of 51 renal centres are currently submitting vaccination data to the Renal Registry - Data linkage already agreed in place for the RR will allow comparison of vaccination and subsequent Covid infection

Also linkage to databases at NHSBT and UKIVAS

Approaching vaccine hesitancy in the Renal Community

-Limiting physical barriers to access

Home > COVID vaccine news > People on dialysis get Covid vaccine in record time

People on dialysis get Covid vaccine in record time



People on life-saving dialysis who had been living in fear since the start of the pandemic have now been vaccinated in record time.

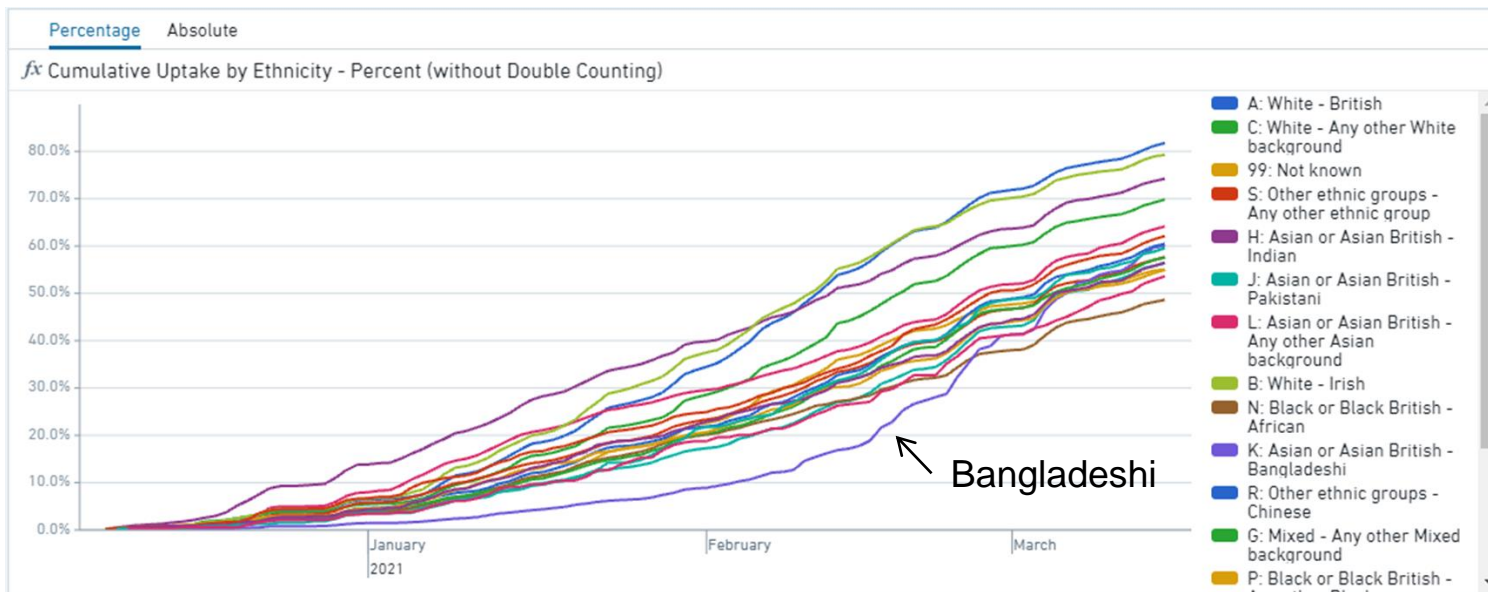
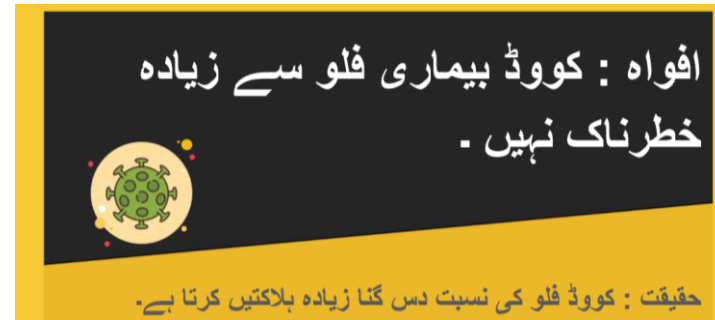
Patients with kidney failure are extremely vulnerable to the virus yet are unable to shield because they need regular dialysis to stay alive.

Main image above: Cyril Phillips with renal pharmacist Lee White

Approaching vaccine hesitancy in the Renal Community

-Using local insights and interventions to engage vulnerable and marginalised groups

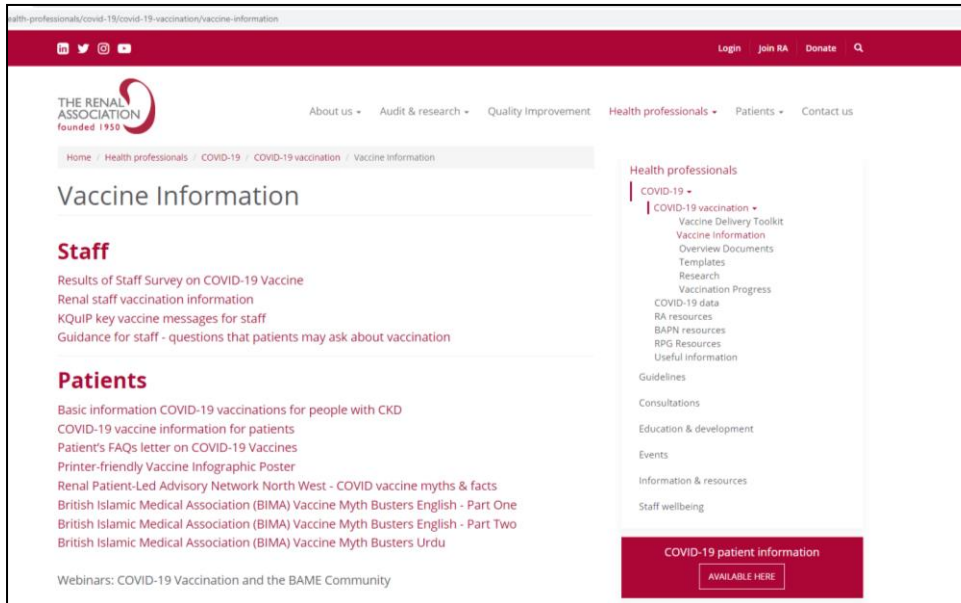
Webinars: COVID-19 Vaccination and the BAME Community



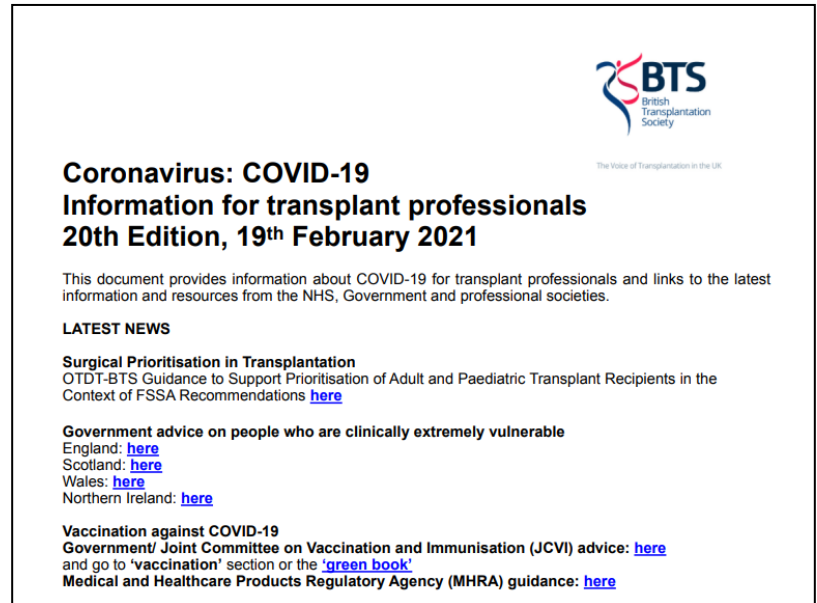
Impact of engagement with local BAME communities in the North East

Approaching vaccine hesitancy in the Renal Community

- Targeted and locally led communications-for staff and patients



The screenshot shows the website of The Renal Association, founded in 1950. The page is titled 'Vaccine Information' and is part of a series of pages for 'Health professionals', 'COVID-19', and 'COVID-19 vaccination'. The 'Staff' section includes links to 'Results of Staff Survey on COVID-19 Vaccine', 'Renal staff vaccination information', 'KQIP key vaccine messages for staff', and 'Guidance for staff - questions that patients may ask about vaccination'. The 'Patients' section includes links to 'Basic information COVID-19 vaccinations for people with CKD', 'COVID-19 vaccine information for patients', 'Patient's FAQs letter on COVID-19 Vaccines', 'Printer-friendly Vaccine Infographic Poster', 'Renal Patient-Led Advisory Network North West - COVID vaccine myths & facts', 'British Islamic Medical Association (BIMA) Vaccine Myth Busters English - Part One', 'British Islamic Medical Association (BIMA) Vaccine Myth Busters English - Part Two', and 'British Islamic Medical Association (BIMA) Vaccine Myth Busters Urdu'. A sidebar on the right lists 'Health professionals' resources, including 'COVID-19', 'COVID-19 vaccination', 'Vaccine Delivery Toolkit', 'Vaccine Information', 'Overview Documents', 'Templates', 'Research', 'Vaccination Progress', 'COVID-19 data', 'RA resources', 'BAPN resources', 'RPG Resources', 'Useful information', 'Guidelines', 'Consultations', 'Education & development', 'Events', 'Information & resources', and 'Staff wellbeing'. At the bottom, there is a link to 'COVID-19 patient information' and a button labeled 'AVAILABLE HERE'.



The cover of the document is for the British Transplantation Society (BTS). The title is 'Coronavirus: COVID-19 Information for transplant professionals 20th Edition, 19th February 2021'. The BTS logo is in the top right corner, with the tagline 'The Voice of Transplantation in the UK'. The text states: 'This document provides information about COVID-19 for transplant professionals and links to the latest information and resources from the NHS, Government and professional societies.' Under 'LATEST NEWS', there are sections for 'Surgical Prioritisation in Transplantation' (OTDT-BTS Guidance to Support Prioritisation of Adult and Paediatric Transplant Recipients in the Context of FSSA Recommendations [here](#)), 'Government advice on people who are clinically extremely vulnerable' (England: [here](#), Scotland: [here](#), Wales: [here](#), Northern Ireland: [here](#)), and 'Vaccination against COVID-19' (Government/ Joint Committee on Vaccination and Immunisation (JCVI) advice: [here](#) and go to 'vaccination' section or the 'green book', Medical and Healthcare Products Regulatory Agency (MHRA) guidance: [here](#)).

Resources:

<https://renal.org/health-professionals/covid-19>

<https://bts.org.uk/information-resources/covid-19-information/>

<https://www.kidney.org.uk/news/coronavirus-latest-information-and-advice>

<https://www.nhs.uk/conditions/coronavirus-covid-19/coronavirus-vaccination/coronavirus-vaccine/>

Vaccination and transplantation ethics

<https://bts.org.uk/wp-content/uploads/2021/03/Pan-London-ethics-group-COVID-vaccine-transplantation-FINAL.pdf>