

Patient Recruitment Centres

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PRCs: Goals

- To increase the UK's capacity to deliver late phase commercial contract research
- To improve the speed and consistency with which commercial research is delivered in the NHS
- To enable significant opportunities for patients to benefit from early access to innovation
- To provide a test bed for future innovation and process design to improve efficiency
- To attract further investment from the Life Sciences Industry and enable growth

PRCs: Capacity

- Dedicated to commercial research
- Five throughout England
- £1.3 million per PRC
- Dedicated staff, space and access to NHS support services
- Access to research active NHS clinicians
- Excellent time and target track record
- Regional reach across multiple sites



PRCs: Locations



PRCs: Franchise-like model

Making it **quicker and easier** to deliver commercial research at pace and scale in the NHS

Excellent communication

Faster feasibility, costing and contracting

Streamlined study set-up

Consistent research delivery

Personalised patient experience

PRCs: Recruitment engines



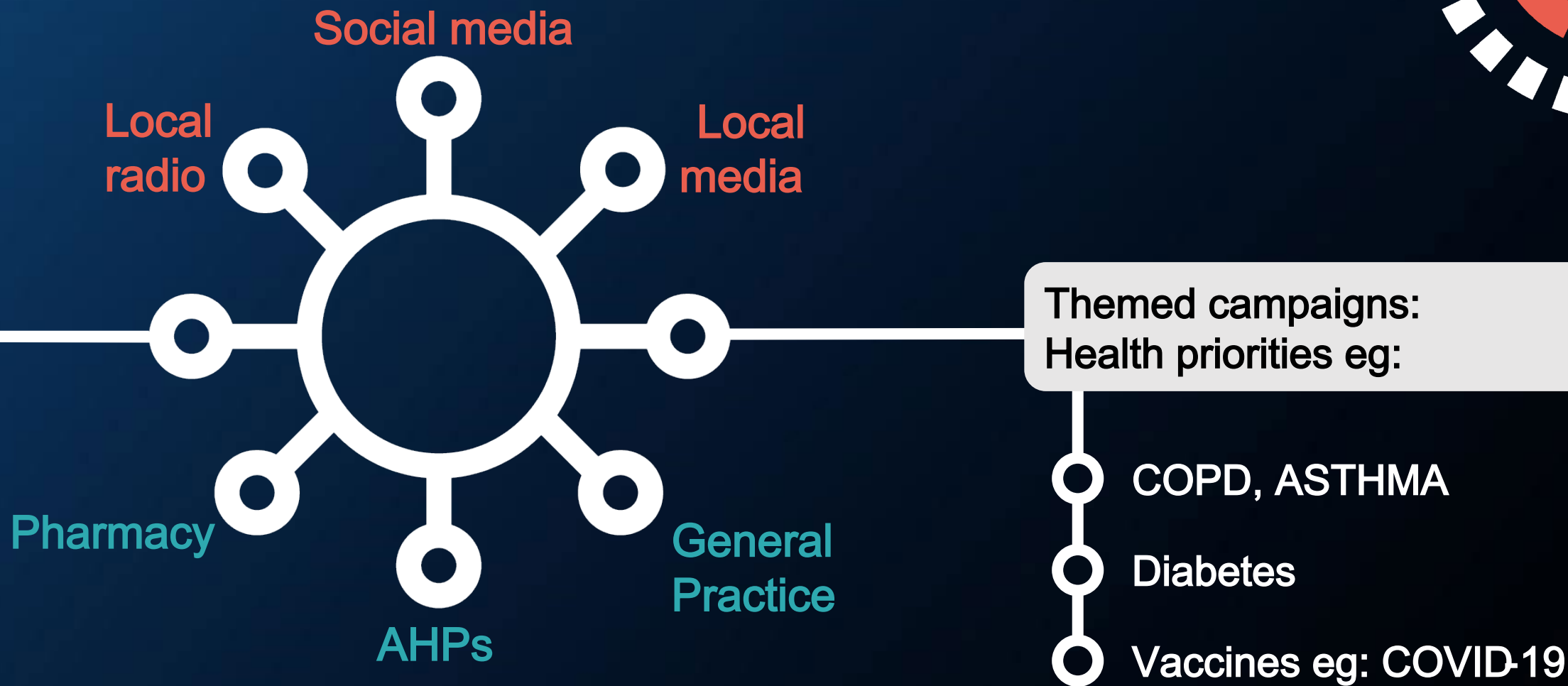
Community - Self-managed conditions eg: Register

Primary care - General practice eg: PIC model

Secondary care- Specialist clinics eg: EPR searches

Regional reach: Enable access to local populations in primary, secondary care and the wider local health sector for recruitment into studies, including identification from existing NHS data.

PRCs: Multi-modality recruitment



PRCs: Company experience

- Dedicated staff, space and resource
- 100% focus on commercial research
- Commercial expertise and experience
- Secure document storage
- Study monitoring space
- Free refreshments and parking



BRADFORD HAS A HIGH INCIDENCE OF CHRONIC DISEASES



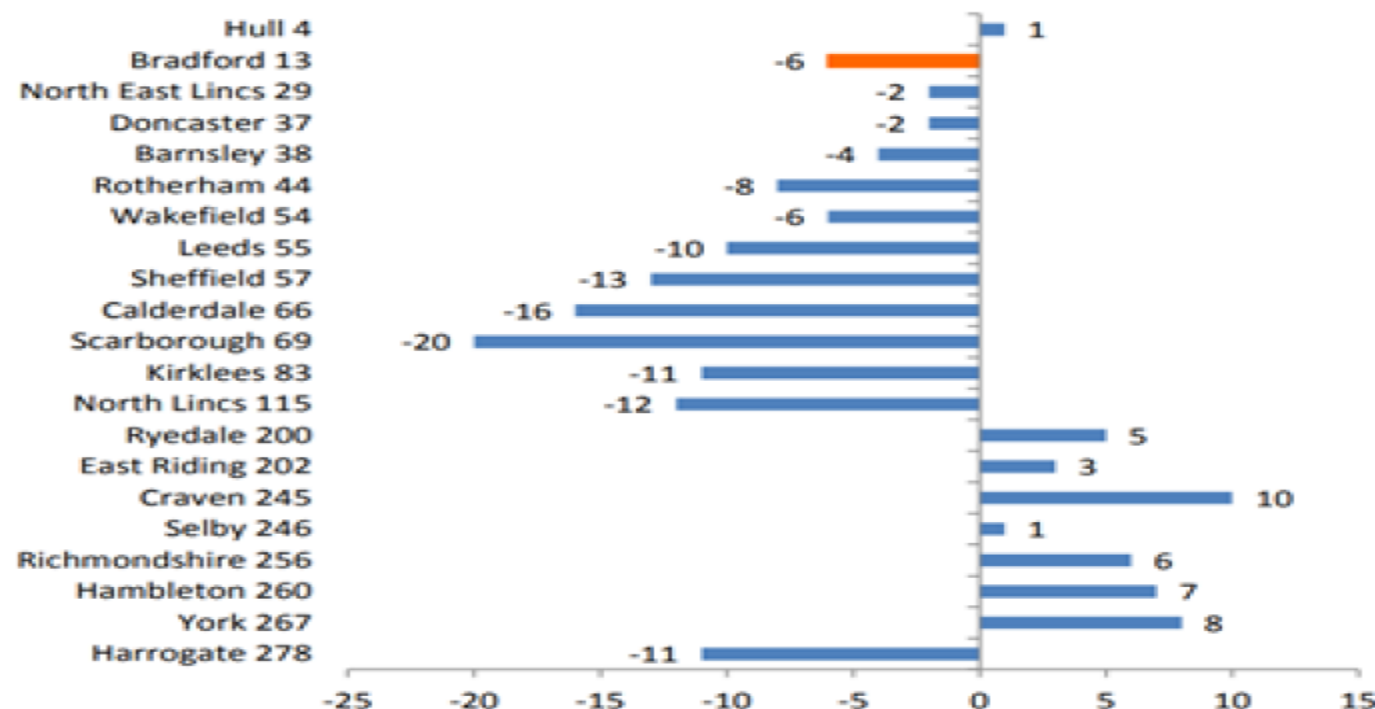
Intelligence: Place



What else do we know?

The Index of Multiple Deprivation (IMD) 2019 places Bradford as the 13th most deprived Local Authority in England (where 1 is most deprived and 317 is the least deprived). More than 34% of the Bradford's neighbourhoods fall within the 10% most deprived in England.

Of the 21 districts in the Yorkshire and Humber region, Bradford is 2nd most deprived behind the City of Hull. This relative position remains unchanged from IMD 2007, IMD 2010 and IMD 2015.

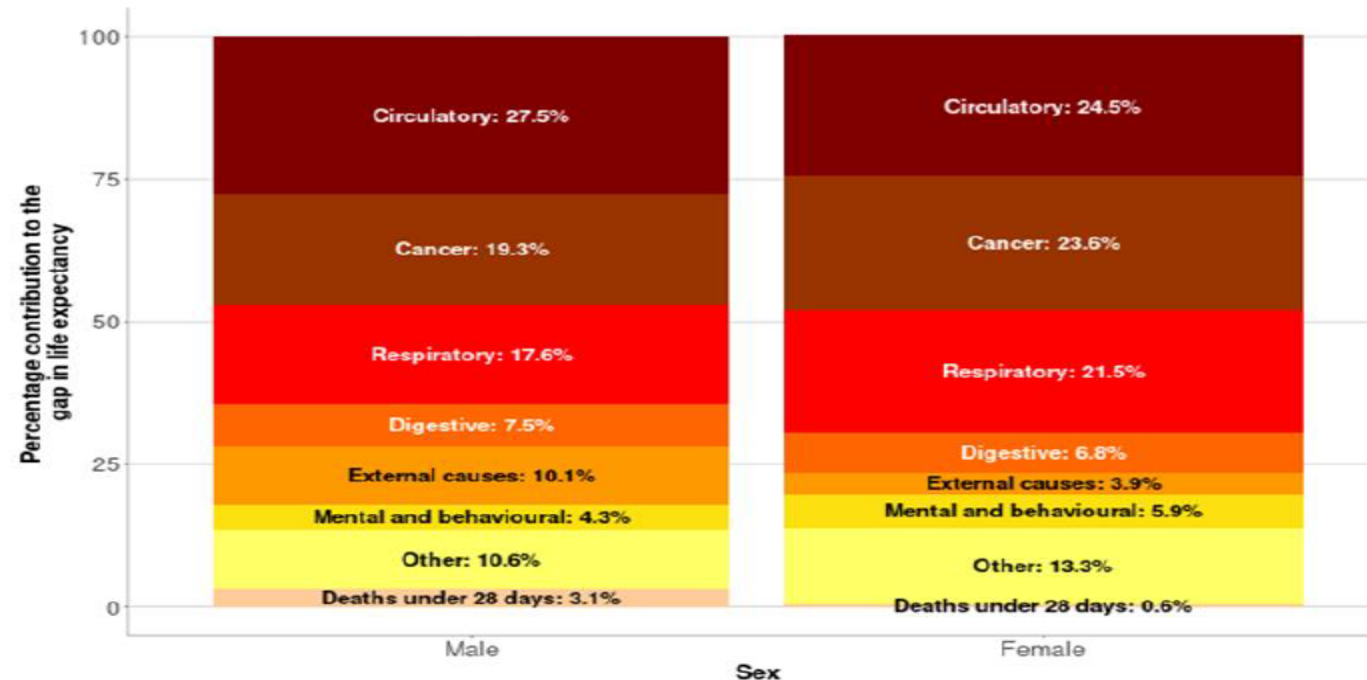


Intelligence: System (WY&H ICS)



- Respiratory disease affects **1 in 5 people** in England
- Third biggest cause of death
- Hospital Admissions for lung disease risen over the past 7 years at three times the rate of admission generally
- Each Year more than **500 people** die from respiratory disease in the District
 - An estimated **25%** of these deaths are preventable.
- On average in the District there are **180 deaths** per year due to respiratory disease in the under 75's with the main causes of death **COPD** and **Pneumonia**
- Incidence and mortality rates (for resp disease) are higher in disadvantaged groups and areas of social deprivation, with the gap widening and leading to worse health outcomes.
- The **most deprived** communities have;
 - Higher incidence of smoking rates
 - Exposure to higher levels of air pollution
 - Poor housing conditions
 - Exposure to occupational hazards

Scarf chart showing the breakdown of the life expectancy gap between the most deprived quintile and least deprived quintile of West Yorkshire and Harrogate (Health and Care Partnership), by broad cause of death, 2015-17



Source: Public Health England based on ONS death registration data and mid year population estimates, and Ministry of Housing, Communities and Local Government Index of Multiple Deprivation, 2015



RESPIRATORY PROGRAMME

WHY WE NEED TO ACT NOW



500 people die from respiratory disease in the district every year. 25% of these deaths are preventable.

main causes of death are COPD and pneumonia

180 of these deaths are in the under 75s. This is amongst the highest in England and the second highest in Yorkshire and Humber.

Respiratory disease is a leading cause of dying early in Bradford District

The most deprived parts of the District have the highest premature mortality rates.

34% of our neighbourhoods fall within the 10% most deprived in England (an additional three neighbourhoods since 2015)



diagnoses of respiratory disease

13,362 COPD
43,613 asthma

This is a higher prevalence than the England average and likely to be an underestimate as many people will be undiagnosed.



Disease rates for COPD are lower in parts of Bradford City, in part, a reflection of the younger age structure of the population. As the number of older people increases, the number of people with COPD is expected to increase.

Source: Joint Strategic Needs Assessment. Data correct April 2021

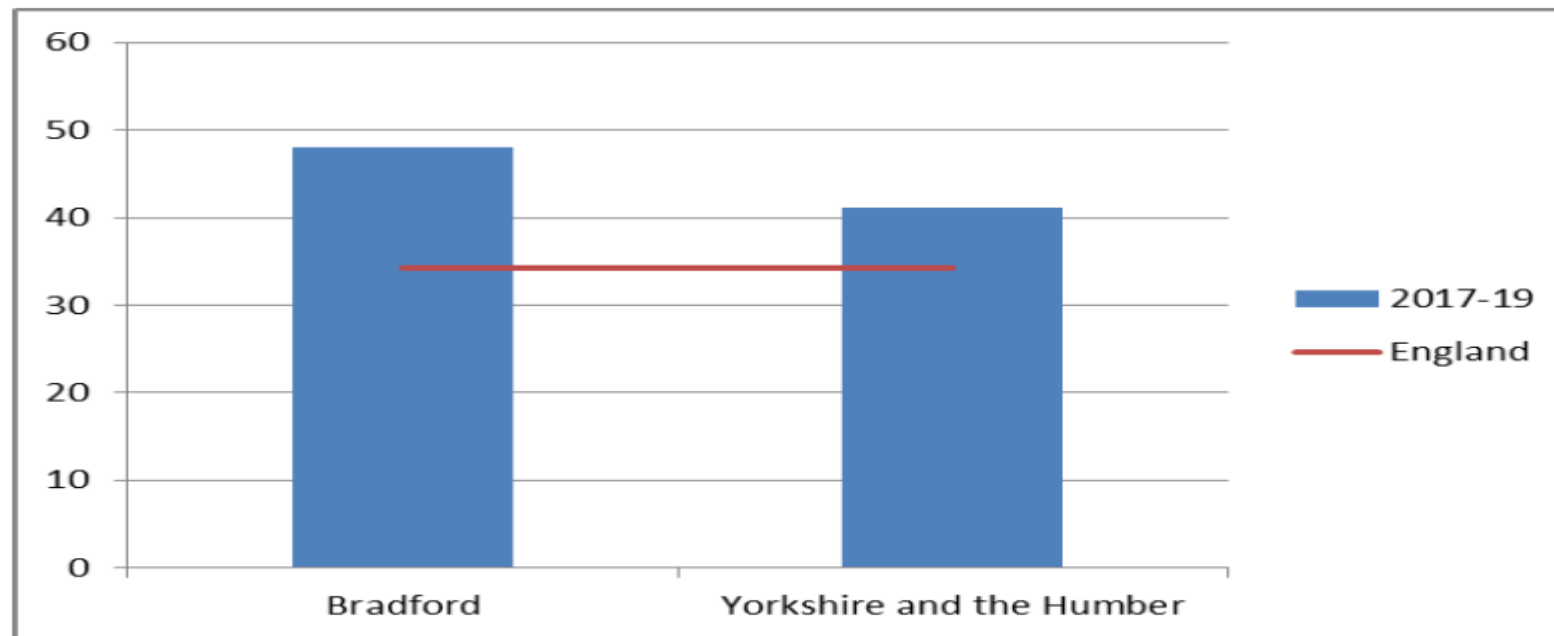
Intelligence: Place



In the most recent data for under 75 mortality rates from respiratory disease for 2017-2019 the rate in Bradford was **48.0 deaths per 100,000 population**.

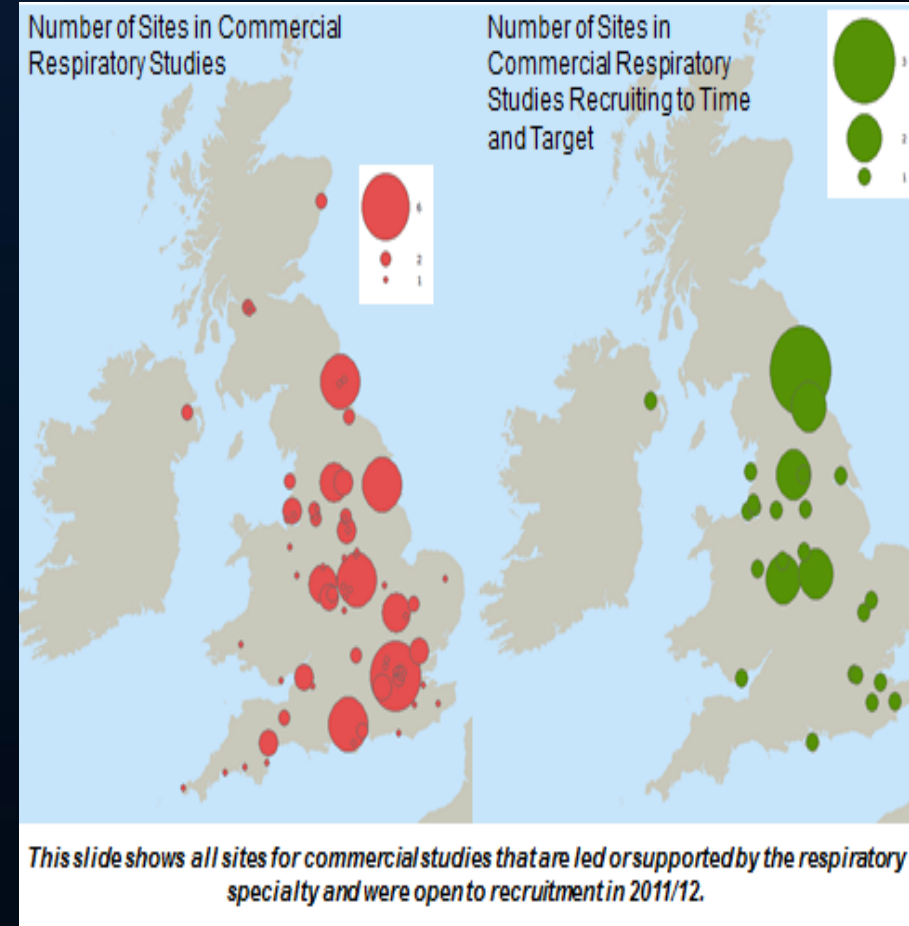
This is compared to **41.2 per 100,000** in Yorkshire and the Humber and **34.2 per 100,000** in England.

Under 75 Mortality Rates from respiratory Disease 2017-19



WHY IS THE PRC SO IMPORTANT FOR BRADFORD?

- Leading the world in cutting edge technology
- Bring Research to the population which needs it the most
- Early access to novel therapies
- Engage wider communities in research
- Research active Organisation's provide better care for their patients
- Kudos and research reputation – one of only five PRCs – ‘trailblaze’
- Enhance collaboration and partnership across the district/ ICS – ‘Research as One’ as PRC working with primary care and other healthcare organisations.



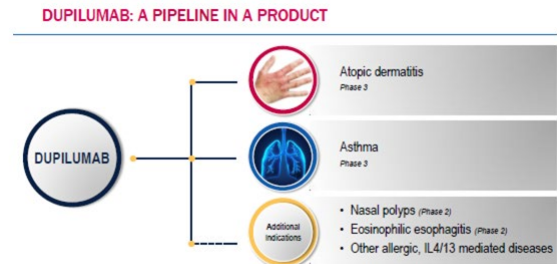
PATIENT GET TO EXPERIENCE NEW TREATMENTS



Tralokinumab



Reslizumab



Market Realist[®]

Source: Regeneron, J.P. Morgan 34th Annual Healthcare Conference



KEY INDUSTRY PARTNERS

1. NOVARTIS
2. GSK
3. ASTRA ZENECA
4. BAYER
5. CHIESI
6. PFIZER
7. BOEHRINGER –INGELHEIM
8. ROCHE
9. GENENTECH



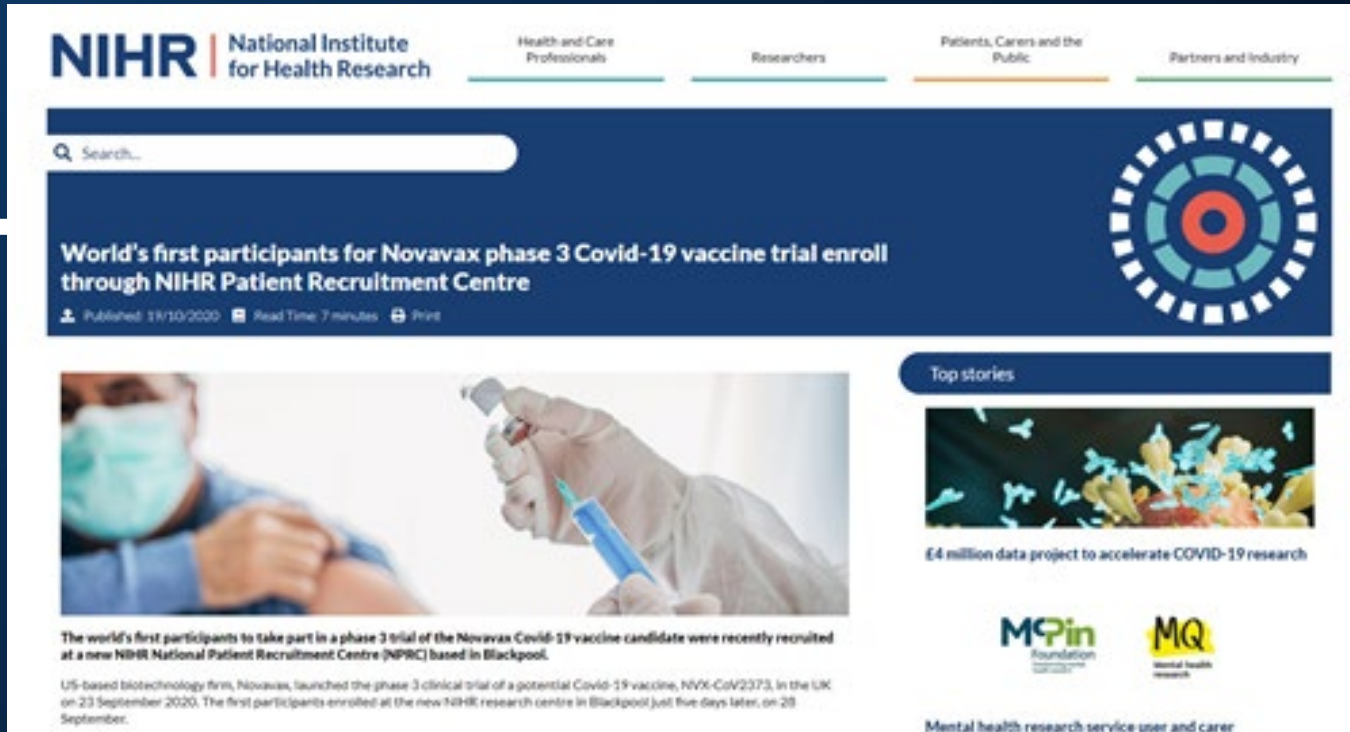
Patient Recruitment Centre: Bradford

- Based at the Bradford Institute for Health Research, BRI
- Proven track record of delivering commercial research
- Dedicated facilities (clinical research facility) and staffing
- Played key role in delivering COVID-19 vaccine trial and other studies underway



PRCs: Novavax COVID19 vaccine trial

September 2020 - World's first participants for Novavax phase 3 Covid-19
BRADFORD RECRUITED 726 SUBJECTS, 3RD HIGHEST RECRUITER



10
DAYS
SETUP



5
DAYS
FIRST
PATIENT



1900
PARTICIPANTS
RECRUITED
PRC: Bradford
PRC: Exeter
PRC: Blackpool

BRADFORD PLAYED ITS PART

One of 26 UK Novavax trial Sites

3rd Highest recruiter in UK

Recruited 726 participants

Largest phase 3 trial in UK

15,226 participants

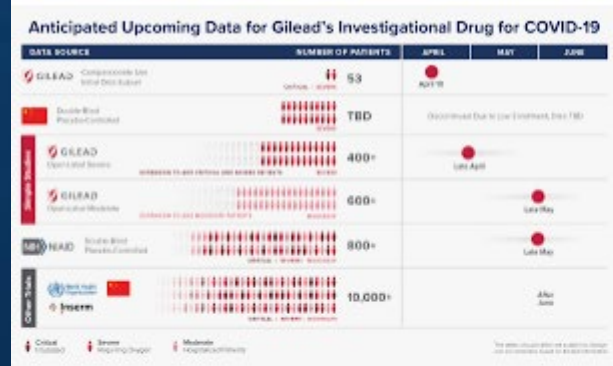
7% BAME Recruits





GILEAD OUTPATIENT REMDESIVIR STUDY

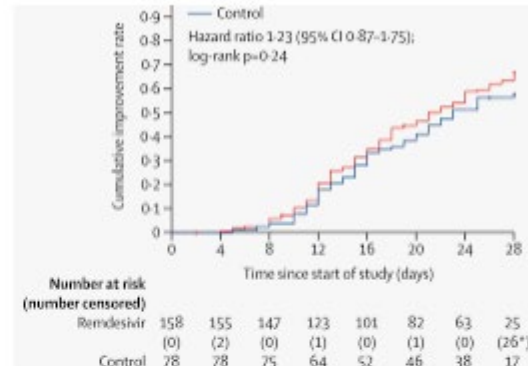
A new batch of data for Gilead Sciences ...
marketwatch.com



Early Data on Remdesivir for COVID-19 ...
clinicaloncology.com



First trial for potential Covid-19 drug...
theguardian.com



Remdesivir in adults with severe COVID ...
thelancet.com




1 OF 2 PRC'S to run the study


1st Recruit in the UK

Led By Brad Wilson in ED


DAPA MI ASTRA ZENECA STUDY



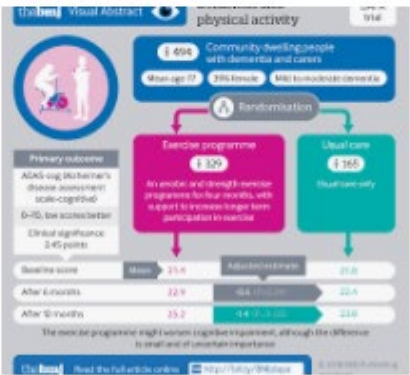
FDA fast-track designation ...
pmlive.com



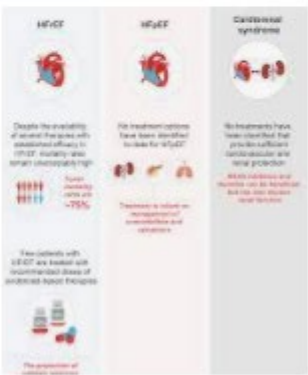
FARXIGA Granted Fast Track Designation ...
businesswire.com



Patients with Chronic Kidney Dise...
astrazeneca.in



Dementia And Physical Activity (D...
bmj.com



SGLT-2 Inhibitors in Hea...
ahajournals.org

Cardiology Heart Failure Study

Led by Dr Steve Lindsay

One of 4 PRC Sites and The Lead PRC

CONNECTED SYMBICORT ILS



Connected Symbicort Study Design Options

3 March 2021

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WHATS THE FUTURE LOOKING LIKE

Deliver Studies on Large scale and speed

Cross cutting to address multi morbidity

Cross cutting across primary care : Act as One

Taking research to the population

HOWEVER..... WE HAVE CHALLENGES

STRENGTH

RESPIRATORY
OPHTHALMOLOGY
CARDIOLOGY
DERMATOLOGY

WEAKNESS

ONCOLOGY & HAEMATOLOGY
CHILDREN & WOMANS
PAEDIATRICS
UROLOGY
RHEUMATOLOGY
NEUROLOGY

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