## **Public Research, Development & Innovation Sub-Committee**

Thu 20 July 2023, 10:00 - 12:00

Trust Headquarters, 2 Charnwood Court, Parc Nantgarw, Cardiff

## **Agenda**

## 20 min

## 10:00 - 10:20 1. PRESENTATION

#### 1.1. PROD Study

Led by Felicity May, Clinical Scientist, Welsh Blood Service

1.1 PROD Study.pdf (26 pages)

#### 1.2. Measuring the Immune Response after Kidney Transplantation

Led by Deborah Pritchard, Welsh Transplantation and Immunogenetics Lab Manager, Welsh Blood Service

1.2 Immune Response after Kidney Transplantation.pdf (11 pages)

## 5 min

## 10:20 - 10:25 2. STANDARD BUSINESS

## 2.1. Apologies

Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee

- Dr Eve Evans, Clinical Director, Velindre Cancer Services
- · Steve Ham, Chief Executive
- · Professor Donna Mead, Trust Chair

#### 2.2. In Attendance

Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee

- Felicity May, Clinical Scientist, Welsh Blood Service (Item 1.1)
- Deborah Pritchard, Welsh Transplantation and Immunogenetics Lab Manager, Welsh Blood Service (Item 1.2)
- Christopher Cotterill-Jones, Research Delivery Manager (Item 4.1)
- Dr James Powell, Consultant Clinical Oncologist (Item 4.2)
- Libby Crumpton, Advancing Radiotherapy Fund Manager (Item 5.3.2)
- Kate Cleary, Velindre Futures Cancer R&D Strategy Project Manager (Observer)
- Debbie Harvey, Life Sciences Hub Cardiff (Observer)

#### 2.3. Declarations of Interest

Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee

## 2.4. Minutes from the Public Research, Development & Innovation Committee held on the 28th February 2023

Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee

2.4 Public RDI Minutes 28.02.23 (Draft).pdf (13 pages)

### 2.5. Action Log

Led by Dr Jacinta Abraham, Executive Medical Director & R&D Lead

2.5 Public RDI Action Log 28.02.23.pdf (1 pages)

#### 2.6. Matters Arising

Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee

## 15 min

## 10:25 - 10:40 3. MAIN AGENDA

## 3.1. Executive Medical Director Briefing

Led by Dr Jacinta Abraham, Executive Medical Director & R&D Lead

- 3.1a Executive Briefing Cover Report.pdf (8 pages)
- 3.1b Executive Briefing.pdf (7 pages)

## 3.2. TRUST Research, Development & Innovation Sub-Committee Risk Register Extract

Led by Sarah Townsend, Head of Research & Development

There are no open risks on Datix for escalation to the Research Development & Innovation Sub-Committee in line with the Trust Board Risk Appetite

## 60 min

## 10:40 - 11:40 4. STRATEGY, PERFORMANCE AND DELIVERY

#### 4.1. TRUST Research, Development & Innovation Performance Report

Led by Sarah Townsend, Head of Research & Development and relevant leads as follows:

- Christopher Cotterill-Jones, Research Delivery Manager
- Libby Batt, Velindre Futures Cancer R&D Strategy Lead
- Peter Richardson, Head of Quality & Assurance, Welsh Blood Service & Dr Sian James, R&D Facilitation Lead, Welsh Blood Service
- 4.1a RDI Performance Report FY2022-23 Cover Report.pdf (3 pages)
- 4.1b RDI Performance Report FY2022-23.pdf (108 pages)

#### 4.2. Option appraisal for the research bunker in nVCC - Update

Oral Update by Dr James Powell, Consultant Clinical Oncologist

#### 4.3. Welsh Blood Service Research, Development & Innovation Strategy Project Update

Led by Dr Sian James, R&D Facilitation Lead, Welsh Blood Service

4.3 WBS RDI Project Board Update.pdf (16 pages)

## 11:40 - 11:45 5. CONSENT AGENDA

5 min

The consent part of the agenda considers routine Committee business as a single agenda item. Members may ask for items to be moved to the main agenda if a fuller discussion is required.

#### 5.1. Consent - For Approval

There are currently no items for approval.

#### 5.2. Consent - For Endorsement

There are currently no items for endorsement.

## 5.3. Consent - For Noting

## 5.3.1. Draft Summary of the Minutes from the Private Research, Development & Innovation Committee held on the 28th February 2023

Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee

**1** 5.3.1 Private Summary RDI Minutes 28.02.2023.pdf (5 pages)

## 5.3.2. Advancing Radiotherapy Fund (ARF) Highlight Report

Led by Libby Crumpton, Advancing Radiotherapy Fund Manager

5.3.2 ARF Highlight Report.pdf (4 pages)

## 11:45 - 11:50 6. ANY OTHER BUSINESS

5 min

Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee

Announcement from NIHR: Researchers in Scotland, Wales and Northern Ireland to access further NIHR research funding.

6.0 NIHR Announcement.pdf (1 pages)

#### 11:50 - 11:55 7. HIGHLIGHT REPORT

5 min

Members to identify items to include in the Highlight Report:

- For Escalation
- For Assurance
- For Advising
- For Information

## 11:55 - 12:00 8. DATE AND TIME OF THE NEXT MEETING

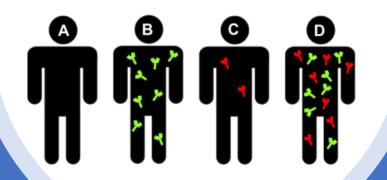
5 min

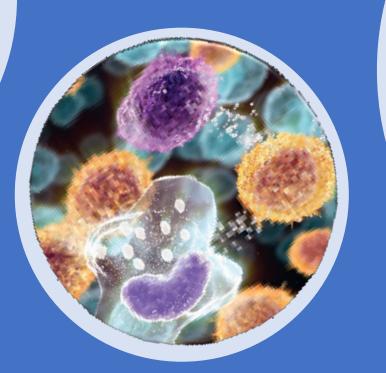
The Public Research, Development & Innovation Sub-Committee will next meet on the 19th September 2023 from 10:00-12.00pm at Trust Headquarters, Nantgarw.

#### 12:00 - 12:00 9. CLOSE

0 min

Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee









**Bwrdd lechyd Prifysgol** Caerdydd a'r Fro









PRedictive Biomarkers Of Response to Desensitisation

Felicity May – Clinical Scientist, WBS



# Presentation Overview

## Introduction

Research context

Chapter 1 – Literature Review

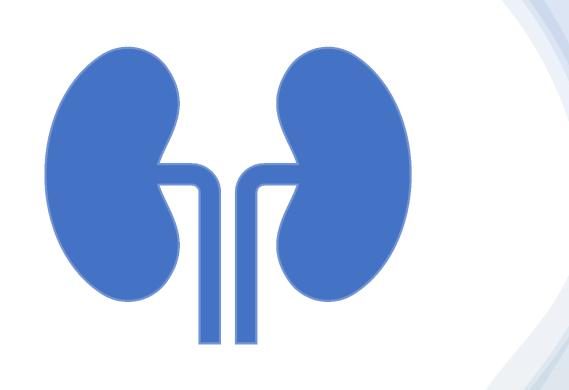
Aims & Objectives

Chapter 2 - Methodology

Chapter 3 – Patient Analysis

Chapter 4 – Biomarker Analysis

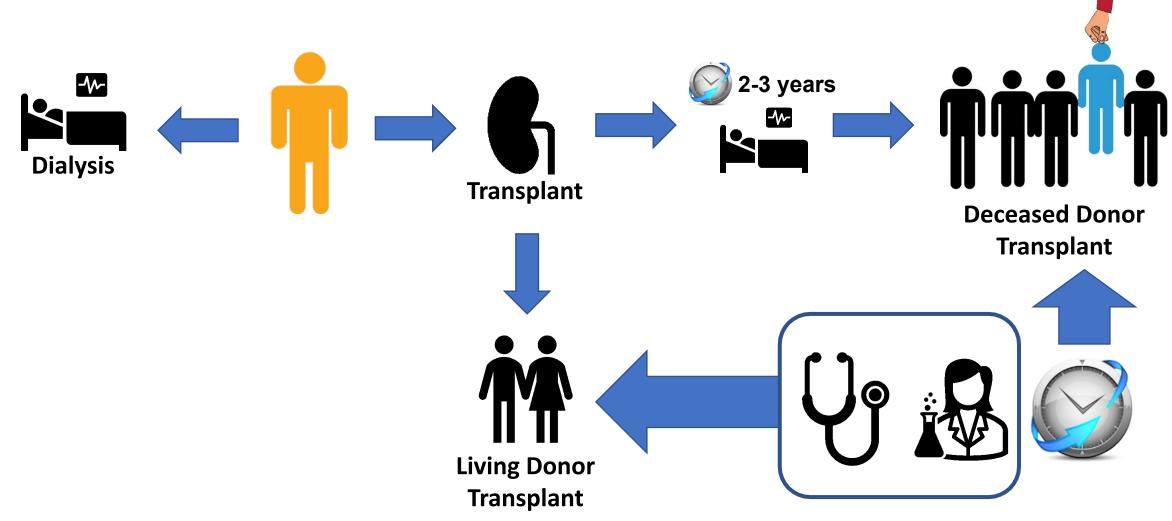
Chapter 5 - Discussion



**Research Context** 

Introduction

# Renal Replacement for ESRD



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## **HLA and Transplantation**

## **Normal role of HLA**

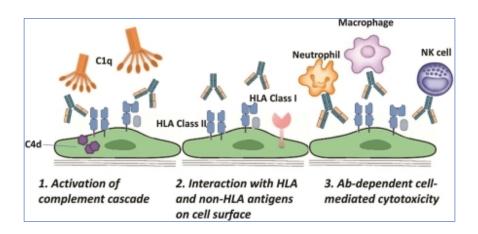
- MHC antigens expressed on cell surface
- Highly polymorphic (>30,000 variants!)
- Immunity distinguish 'self' from 'non self' (e.g., infection)

## **Transplant Rejection**

- Patient's immune system recognises HLA on the donor cells as 'non self'
- Cellular/antibody response to attack graft

## **HLA Sensitisation**

- Prior exposure to non-self HLA increases risk
- Pregnancy, transfusion or previous transplant
- Circulating HLA antibodies = measure of immunological risk
  - ➤ High level DSA → risk of hyperacute rejection (HAR) → veto
  - $\rightarrow$  Med-Low level DSA  $\rightarrow$  risk of rejection episodes  $\rightarrow$  advise



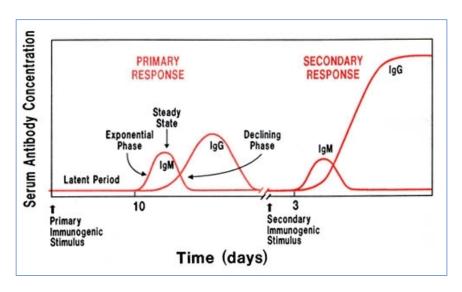


Image source: Wang et al. 2019

# **Inequity of Access**



- ☐ Priority on national waiting list (2019 KOS)
- ☐ UK Living Kidney Sharing Scheme (UKLKSS)
- ☐ HLA Incompatible Transplantation



## Understanding Immunological Response to Desensitisation Strategies in Highly Sensitised Potential Kidney Transplant Patients

*Transplant Reviews* 2021; 35(2):100596. doi: 10.1016/j.trre.2021.100596.

Literature Review

Chapter 1

## **Variation in HLAi Transplant Outcome**



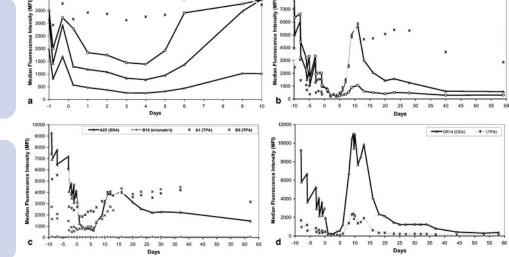
'Desensitisation'

- -> Reduce antibody levels
- ->Improve access to transplantation
- ->Minimise risk of AMR



Known variation in outcome

- -> Antibody response
- -> Early/late rejection
- -> Graft survival





Gaps in understanding:

- -> Why response varies
- -> Effects/mechanism of treatment
- -> No established "optimal" protocol

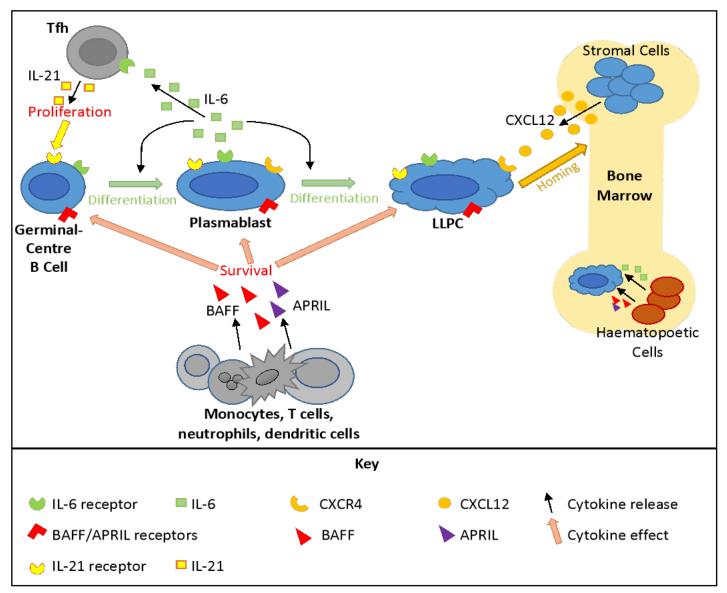


How would predicting outcome help?

- -> Avoid use of ineffective treatment
  - unnecessary risks/side effects
  - wasted money/resource
- -> Inform alternative treatments

Ko et al. Transplant International 2017; 30: 1215–1225

## **Long-Lived Plasma Cells**



## Long-lived plasma cells (LLPCs)

- ➤ Main source of HLA antibodies in HSPs
- > Reside in the bone marrow
- > Secrete antibodies for up to a lifetime
- ➤ May evade desensitisation

## **Cytokines, chemokines & immune factors**

- Support generation, survival and homing of LLPCs
- Relatively understudied in transplant recipients
- ➤ Elevated levels of sCD30, BAFF and IL-6 associated with risk of AMR

(Banham et al., 2013, Jordan et al., 2017; Schaefer et al., 2016, Thaunat et al., 2008; Wilson et al., 2016).

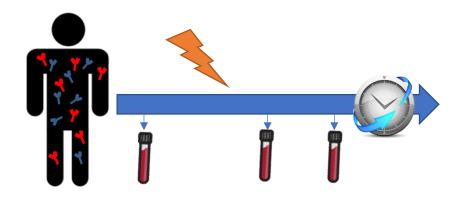
## Research Aims and Objectives

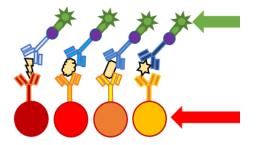
## Aim

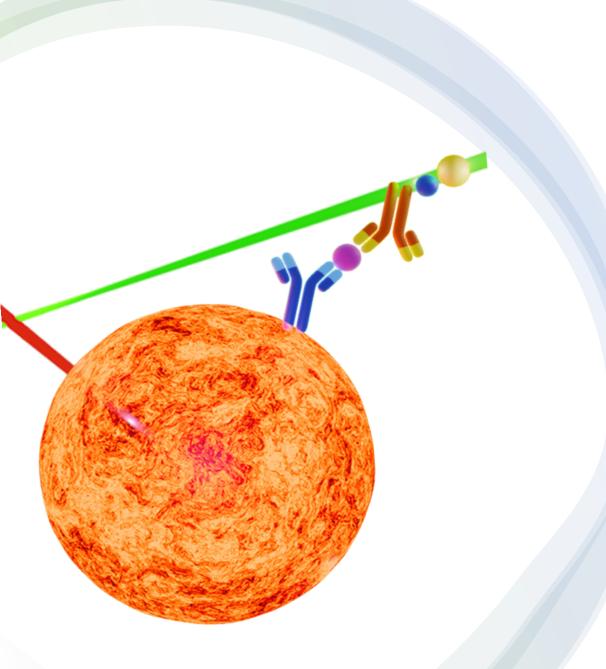
Characterise immunological factors involved in plasma cell generation, homing, and survival in desensitised patients.

## **Objectives**

- Design a Luminex Multiplex panel to quantify analytes of interest.
- Source longitudinal serum samples from patients who have been desensitised and transplanted
- Identify effects of treatment on the immunological factors.
- Determine if a profile at baseline can predict outcome





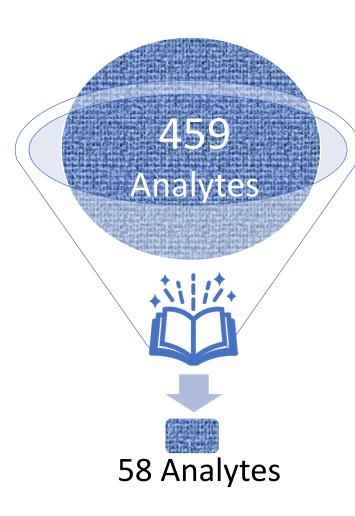


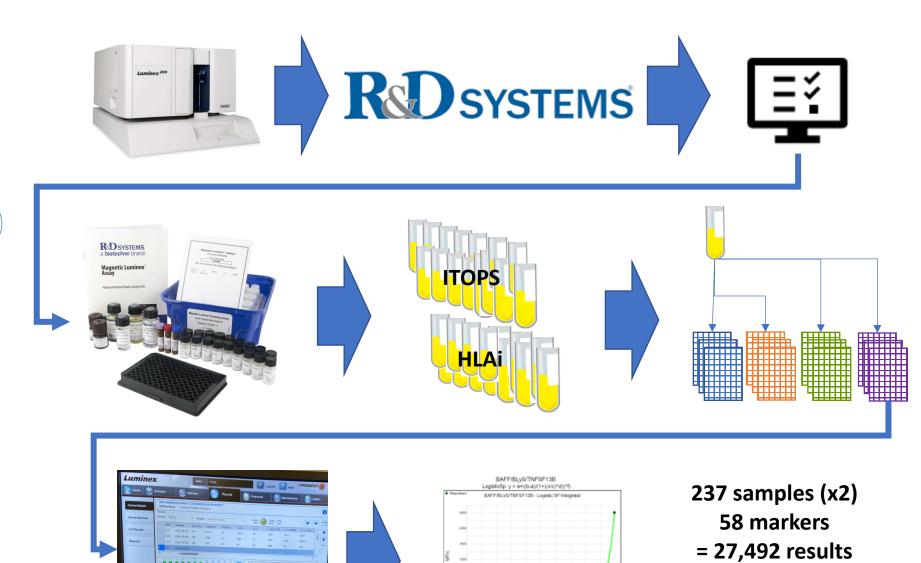
Selection of potentially informative biomarkers of immunological memory response in renal transplantation.

Methodology

Chapter 2

# **Study Design**

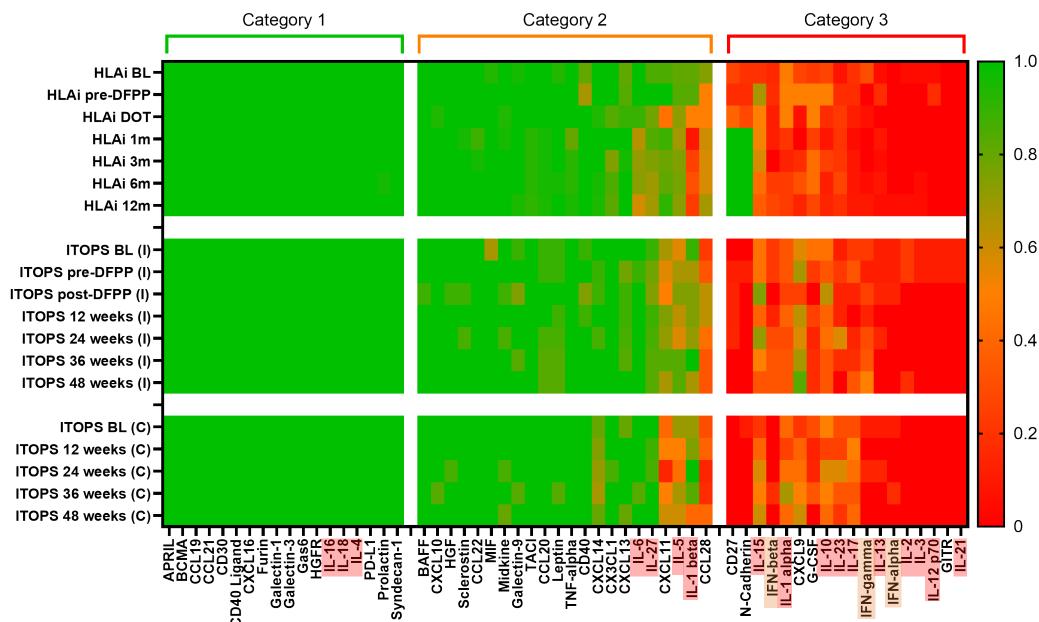


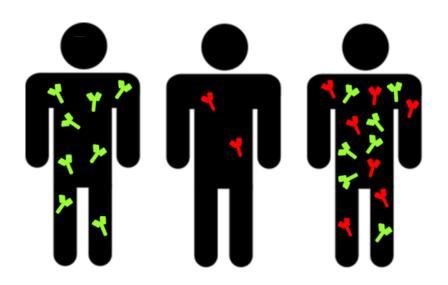


**Results for all samples** 

No run failures

## **Assay Performance**





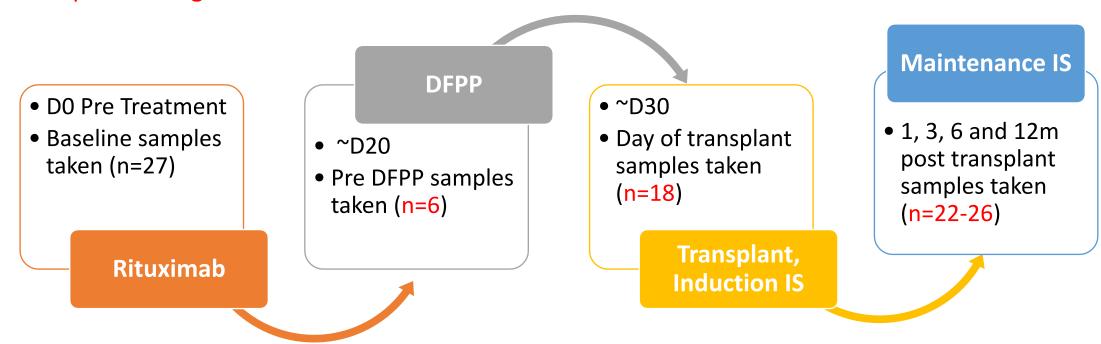
Patient Factors Associated with Clinical Outcome following HLA-incompatible living kidney transplantation: a single centre study of 27 incompatible transplants.

**Patient Factors** 

Chapter 3

## **HLAi Patient Cohort**

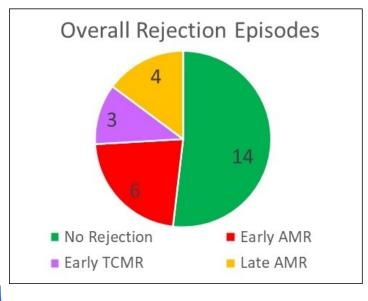
- n=27 patients transplanted with HLA incompatible living kidney donors in UHW 2008 2016
- Overall follow-up: 5.2-13.2 years
- All received pre-transplant desensitisation (single dose of rituximab followed by cycles of DFPP)
- Routine serum samples collected for HLA antibody testing stored in WTAIL (-80°C)
- Samples missing from archive



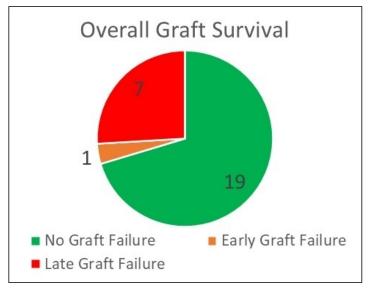
The timing of induction varied, depending on the agent used: alemtuzumab was administered on the day of transplant; basiliximab was administered in two doses (one on the day of transplant, the second at 4-days post-transplant); rATG was administered daily for 5-days from the day of transplant.

# Transplant Outcome

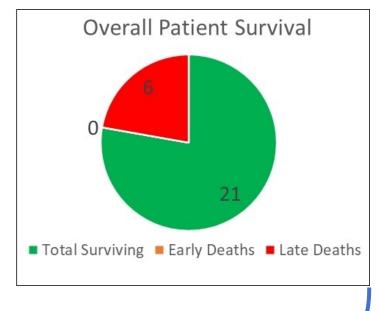
51.9% Rejection-Free Survival

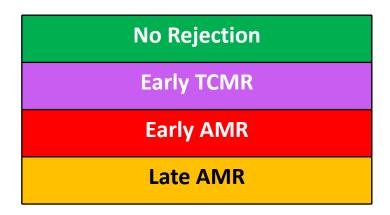


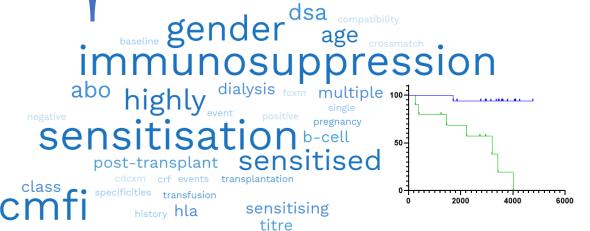
70.4% Graft Survival



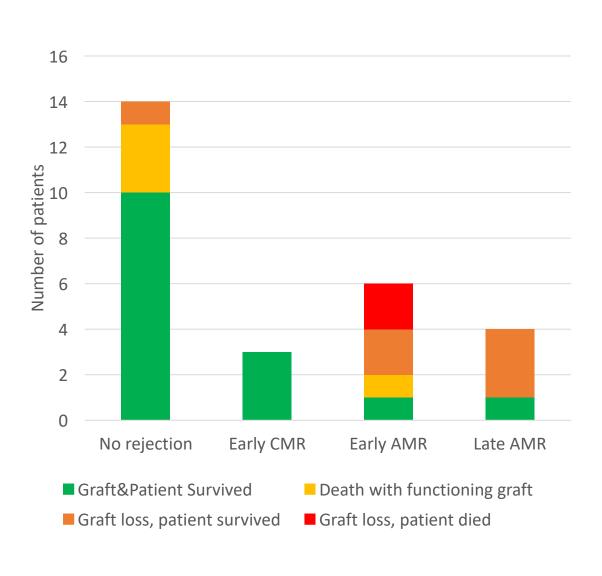
77.8% Patient Survival

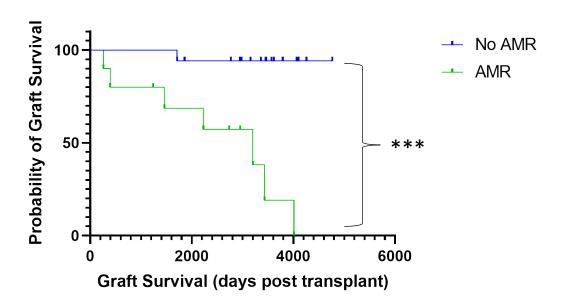


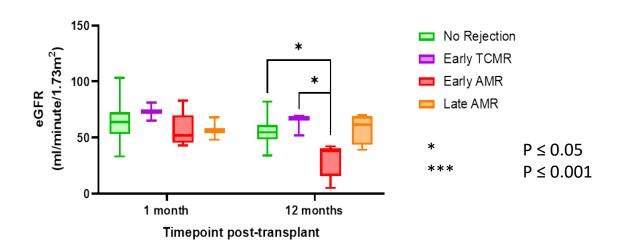




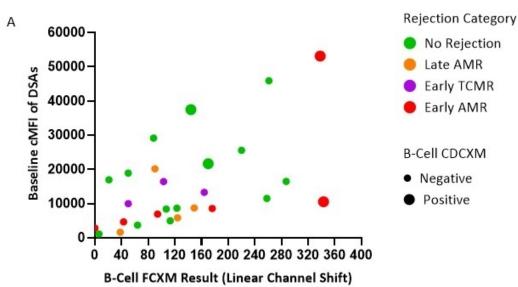
# AMR associated with poor graft survival and function

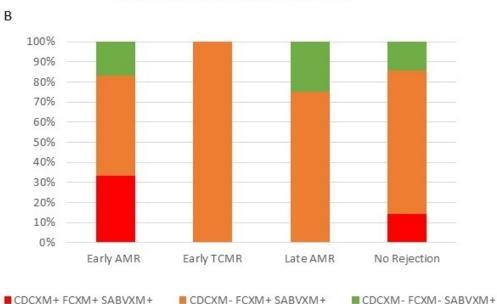


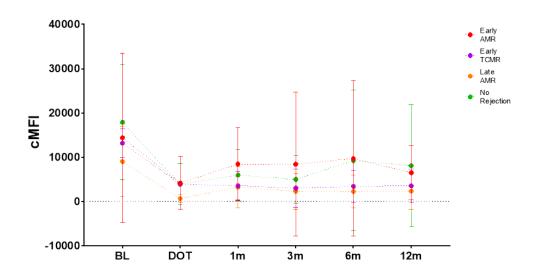


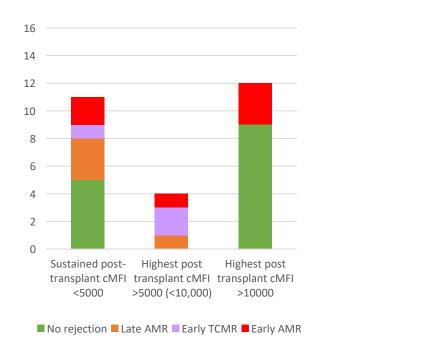


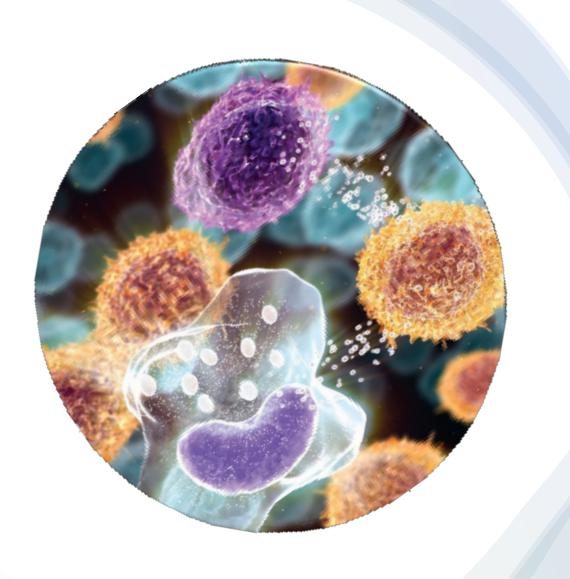
## DSA is a poor predictor of outcome









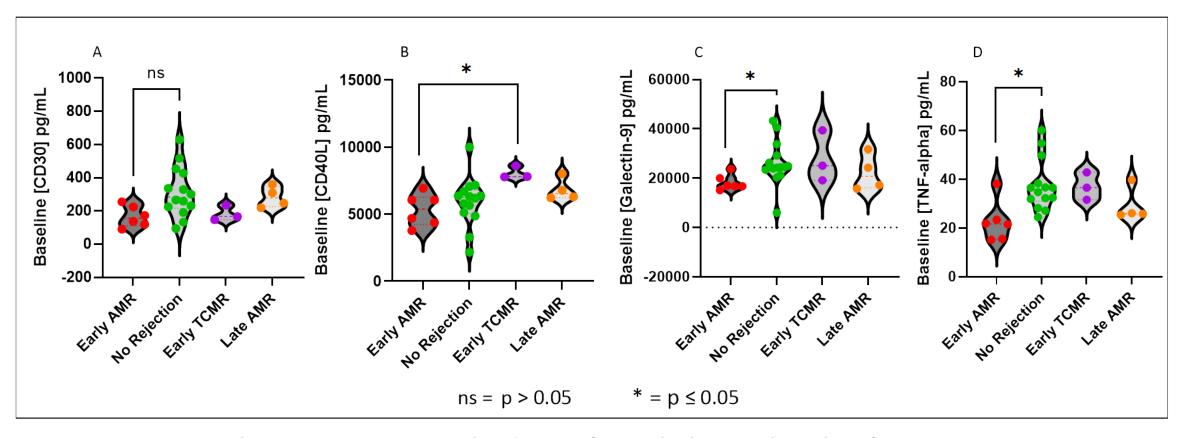


Immune profiles associated with Response to Desensitisation and Clinical Outcome following HLA Incompatible Transplantation

**Immune Factors** 

Chapter 4

## Baseline – Predictive Profile? – Univariate

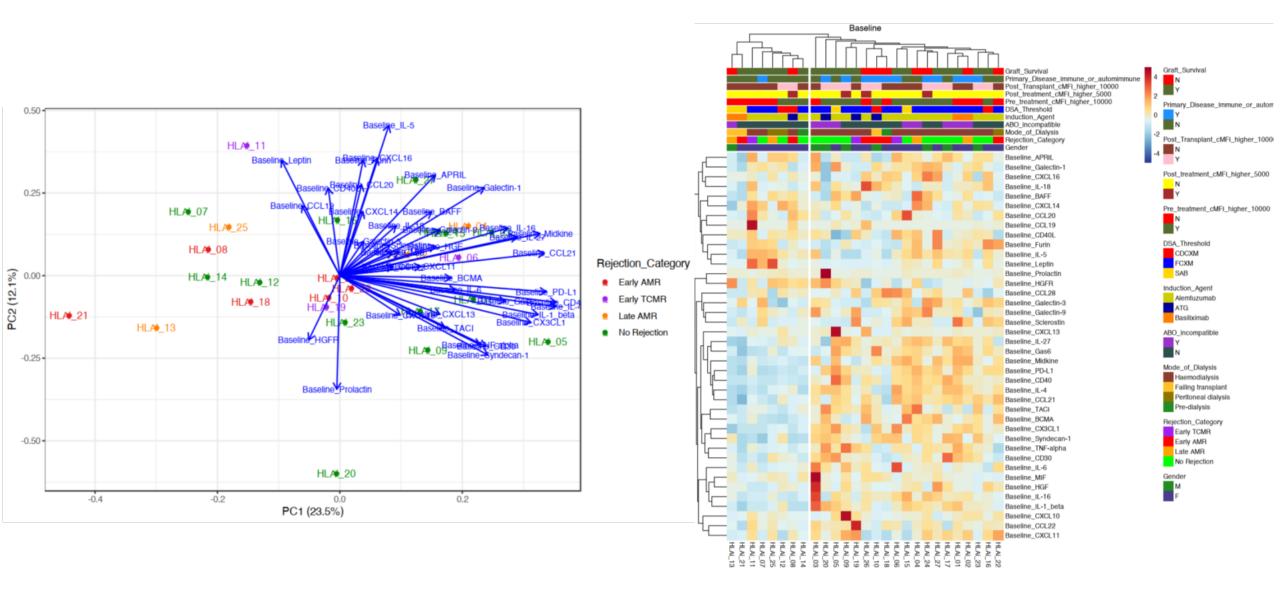


Earlier AMR patients had significantly lower levels of:

- CD30
- CD40 ligand
- Galectin-9
- TNF-alpha

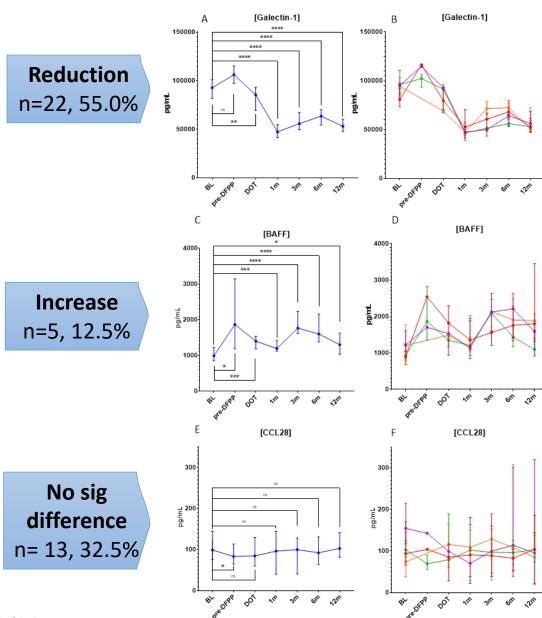
- → marker of T/B-cell activation
- → proinflammatory B-cell activator
- → suppressor of T/B-cell responses
- → proinflammatory B-cell growth factor

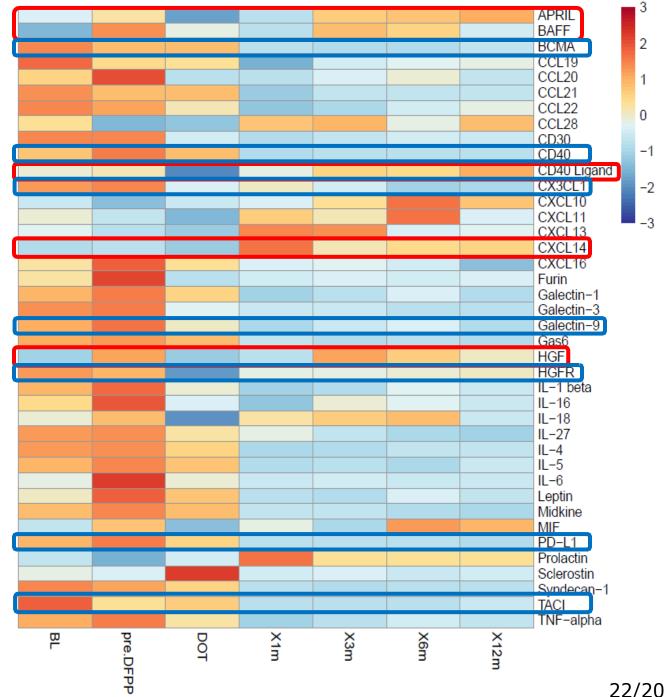
## Baseline – Predictive Profile? – Multivariate

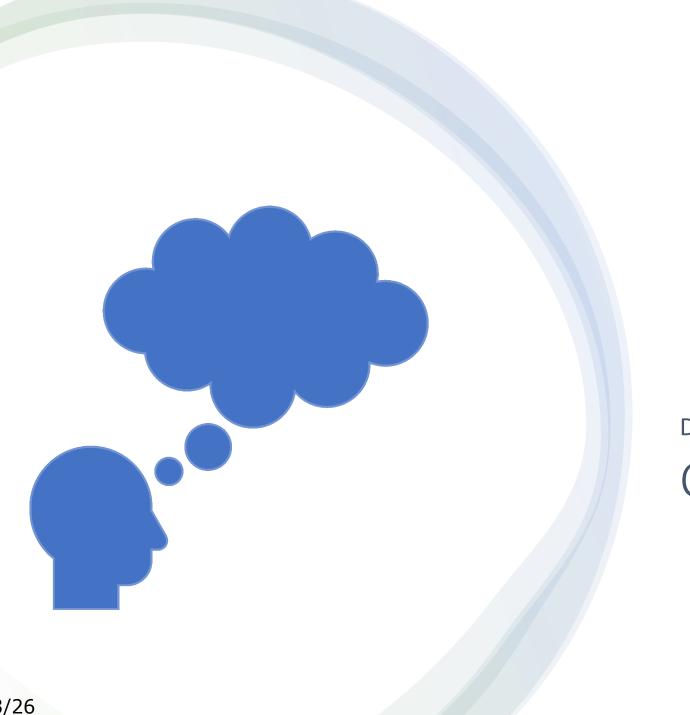


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# Longitudinal Effects







Discussion

Chapter 5

## Critical Evaluation



Selection of samples and patient population

Small sample size, multiple samples/timepoints missing
Use of sera, collected under non-standardised conditions
lack of control group
lack of standardisation in treatment protocols
Subjective diagnosis of rejection



Panel Design

Laborious analyte selection process

Selection based on individual merit rather than networks

Independent validation of results

Waste - multiple analytes < LLOD



Peripheral cytokine measurement

Analyte variations - stability/half-life, low peripheral concentration Assay variations - storage, freeze thaw, temperatures, timings Patient variables – treatment, physiology etc.



**Conclusions** 

Much to be understood to inform selection of treatment

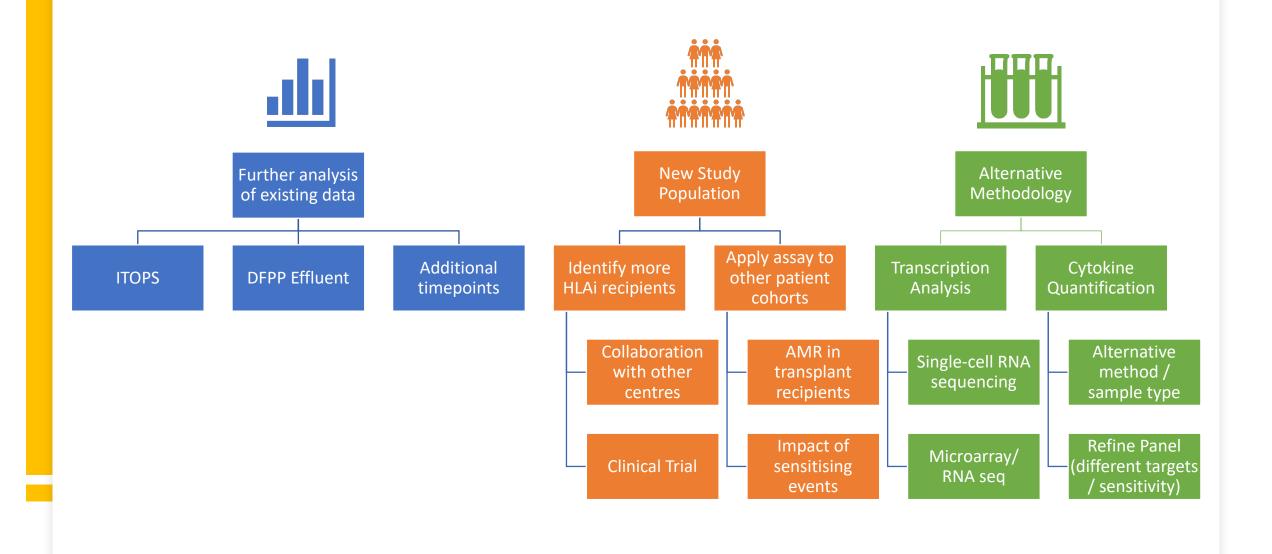
No predictive biomarkers identified in this study.

Desensitisation and transplantation profoundly alters immune signals

Unintended effects = upregulation of pro-survival signals

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# **Future Work**



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## Thank You!

## **Acknowledgements**

**Patients** 

Dr Siân Griffin - Consultant Nephrologist (C&V)

Dr Madhvi Menon – Academic Supervisor (UoM)

Prof Tracy Hussell - Academic Co-Supervisor (UoM)

Syed Murtuza Baker – Biostatistician (UoM)

Chantal Colmont - CU Wales Kidney Research Unit

Dr Tracey Rees – Workplace Supervisor

Dr Siân James – WBS RD&I

Welsh Transplantation and Immunogenetics Laboratory

Support from VUNHST, C&V and WBS SMT















# Measuring The Immune Response After Kidney Transplantation

DEBORAH PRITCHARD
CLINICAL SCIENTIST

WELSH TRANSPLANT LABORATORY

LABORATORY MANAGER

HIGHER SPECIALIST SCIENTIST TRAINING (HSST) DOCTORAL RESEARCH PROJECT



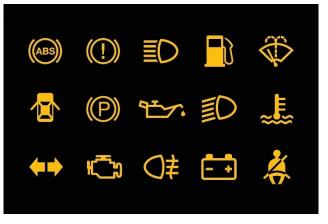
25 Years













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# Kidney Transplants

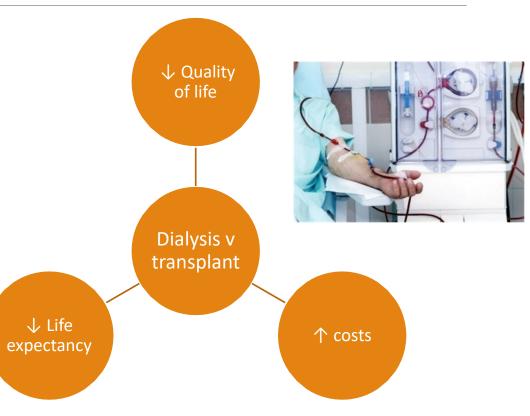


2800 patients received a kidney transplant last year Kidney transplants work for ~15 years

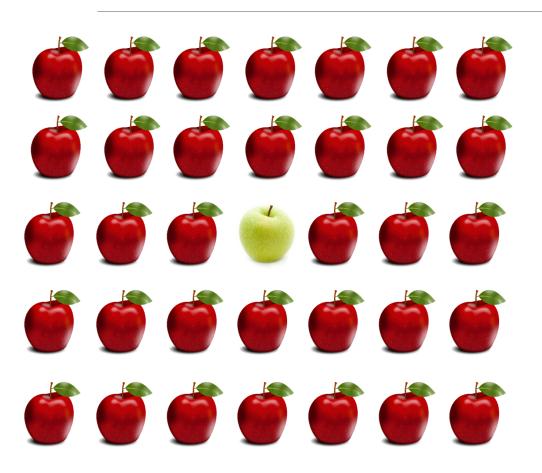
If the transplant stops working = dialysis

Major goal in transplantation is to increase the time a transplant works for

- Patient benefits compared to dialysis
- Health economy benefits
- Demand for transplant over 5000 patients waiting



# Immune System



Normal role = detect & fight infections

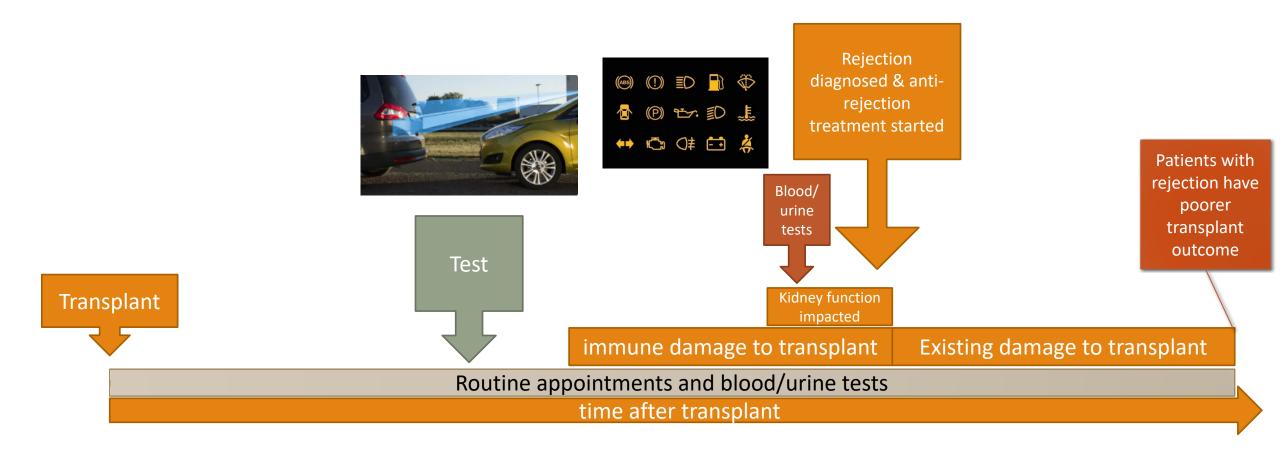
Kidney transplant identified as different

Medication to supress immune system

Immune attack = transplant rejection



# Patient Testing After Transplantation



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Test immune system

My research project





High risk of rejection



Low risk of rejection

Personalise monitoring/treatment based on test results

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# Regulatory Immune Cells

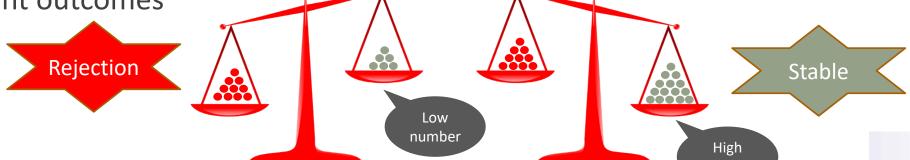


Immune system is complex, made up of lots of different cell types, and varies by person

- Attack cells
- Regulatory cells

Previous research indicates measuring the amount of regulatory cells is correlated with

transplant outcomes



number

## Limitations of current knowledge:

- Limited number of studies performed in transplant patients
- Tests used in research setting not transferrable to the NHS
- Makers to identify regulatory cells not well defined

## Research Project

## Measure regulatory cells in kidney transplant patients



Set up laboratory test to look at several markers associated with regulatory cells (informed by literature review)



Test blood samples from consented patients after kidney transplant (from sample repository patients with and without rejection)



Result analysis to determine if any of the markers alone, or in combination, can differentiate between patients with and without rejection

Findings will be published and communicated

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## Research Overview

#### LIMITATIONS

Initial, single centre study

Method is limited by the number of markers that can be combined

Not proving that the cells identified can supress other cells

 Using markers from other groups that have shown this link and applying to a different patient population

### STRENGTHS/BENEFITS

Test combination of markers not previously tested

Add data to limited studies available in transplantation

Using methodology that can be easily transferred to other NHS labs

Test may be applicable to other organ transplants

Individualised monitoring/treatment

Prevent damage to kidney transplant

Improve time transplant works for

Patient
Health Economy
Transplant Demand

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## Summary

Rejection is the immune system attacking a transplanted kidney

Medication needed to supress the immune system, but rejection can still occur

Immune cells with regulatory function can help prevent rejection

Measuring regulatory cells may identify patients at risk of rejection and those that are stable

Set up laboratory test to measure the amount of regulatory cells in transplant

patients

Using unique combination of markers

Opportunity to personalise monitoring/treatment based on test results

improve transplant outcome



(P) 45% (D)

## Any Questions?

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#### Minutes of the Velindre University NHS Trust Public Research, Development & Innovation Sub-Committee

Date 28/02/2023 Time 10:00-12:00pm Location via Microsoft Teams

**Chair** Professor Andrew Westwell, Independent Member

PRESENT		
Professor Andrew Westwell	Independent Member and Research, Development & Innovation Sub-Committee Chair	AW
Vicky Morris	Independent Member	VM
Professor Donna Mead OBE	Trust Chair	DM
ATTENDEES		
Dr Jacinta Abraham	Executive Medical Director and R&D Lead	JA
Libby Batt	Head of Velindre Cancer R&D Strategy	LB
Matthew Bunce	Executive Director of Finance	MB
Christopher Cotterill Jones	Research Delivery Manager	CCJ
Rachel Hennessey	Interim Head of Operation & Service Delivery	RH
Professor Jane Hopkinson	Velindre Cancer Service Professor of Nursing and Interdisciplinary Cancer Care	
Sian James	RD&I Facilitation Lead, Welsh Blood Service	SJ
Dr Edwin Massey	Medical Director, Welsh Blood Service	EM
Jonathan Patmore	RD&I Finance Business Partner	JP
Peter Richardson	Head of Quality & Assurance & Regulatory Compliance, Welsh Blood Service	PR
Emma Stephens	Head of Corporate Governance	ES
Sarah Townsend	Head of Research & Development	ST
Nicola Williams	Executive Director of Nursing, AHPs and Health Science	NW
SECRETARIAT		
Sandra Cusack	Business Support Officer	SMC

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1.0	PRESENTATIONS	
1.1	Palliative and Supportive Care Research Building On Success Led by Professor Anthony Bryne, Consultant in Palliative Medicine  Professor Andrew Westwell welcomed and introduced Professor Anthony Byrne, Consultant in Palliative Medicine who provided a short presentation on Palliative and Supportive Care Research, Building on Success and the contribution this will make to the Velindre Cancer Strategy. The presentation was well received from the RD&I Sub-Committee.  ACTION: Post meeting discussion to be arranged with DM/AB/Palliative	Secretariat
	Care Team around the portfolio research methods adopted and how to take forward.  Edwin Massey joined the meeting at 10.30am	
2.0	STANDARD BUSINESS	
2.1	<ul> <li>Apologies received from:</li> <li>Eve Gallop-Evans, Clinical Director, Velindre Cancer Services</li> <li>Steve Ham, Chief Executive</li> <li>Paul Wilkins, Interim Director, Velindre Cancer Services</li> </ul>	
2.2	In Attendance	
	<ul> <li>Professor Anthony Bryne, Consultant in Palliative Medicine (Item 1.1)</li> <li>Christopher Cotterill Jones, Research Delivery Manager (Item 4.1)</li> <li>Ross McLeish, Innovation Project Manager (Item 4.1)</li> <li>Kate Cleary, Velindre Futures Cancer Research &amp; Development Strategy Project Manager (Observer)</li> </ul>	
2.3	Declarations of Interest  Led by Professor Andrew Westwell, Chair of the Research, Development  & Innovation Sub-Committee  No declarations of interest were raised.	
2.4	Review of Action Log Led by Dr Jacinta Abraham, Executive Medical Director and R&D Lead  The Research, Development & Innovation Sub-Committee reviewed all actions identified as COMPLETE since the previous meeting and APPROVED to CLOSE. The remaining OPEN actions were reviewed and the following was agreed:	

#### 4.1.0 (15.11.2022) Activity Data Benchmarking with other UK Cancer ST Centres: R&D to undertake a more detailed scoping exercise with each organisation to determine resources, staff, equipment and present findings at a future meeting. Update - Benchmarking work has commenced in line with the research ambitions and the Cardiff Cancer Research Hub. This data will be included in an annual presentation and to be received at December 2023 RD&I Sub-Committee. 4.2.1 (15.11.2022) RDI Performance Report - Radiotherapy Research : ST Work is underway to identify and implement mitigation strategies to improve the Radiotherapy service's capacity in terms of research studies and the wider service, a report to be made available at the next RDI Sub-Committee Meetina. Update - Radiotherapy Trials Research Group has been established to identify issues and implement potential solutions. A Radiotherapy Research Portfolio Group has also been established to oversee the radiotherapy portfolio. Outcomes from the Radiotherapy Trials Research Group will be presented and to be received at December 2023 RD&I Sub-Committee. 3.0 MAIN AGENDA 3.1 **Executive Medical Director Briefing** Led by Dr Jacinta Abraham. Executive Medical Director and R&D Lead The Executive Medical Director Summary reported high-level activities relating to Research, Development and Innovation that took place during Quarter 3, Financial Year (FY) 2022/23. The following key highlights were reported: Welsh Blood Service (WBS) Chloe George, Head of Component Development at WBS has been awarded 'Healthcare Scientist of the Year' at the Advancing Healthcare Awards Cymru. Chloe impressed judges with her ground-breaking work into the cold storage of platelets, for a longer shelf life and safer transfusions. Chloe and her team in the Component Development & Research Laboratory are also investigating new treatments for a range of haematological illnesses, improving transfusion outcomes and minimising risk to patients. Welsh Blood Service would also like to congratulate the Vaccine Distribution Project Team, who were deservedly shortlisted for the 'Improving Public Health Outcomes' Award. Research & Development (R&D) Charitable Funds Committee RD&I Integrated Bid Cardiff Cancer Research Hub Oncacare

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Research Study Data & Performance Measures

The Research, Development & Innovation Sub-Committee would like to personally congratulate Chloe and the Team on this outstanding achievement and the recognition of their hard work and commitment to the Welsh Blood Service.

The Research, Development & Innovation Sub-Committee **NOTED** the contents of the Executive Medical Director Briefing.

### 3.2 Trust Research, Development and Innovation Sub-Committee Risk Register Extract

Led by Sarah Townsend, Head of Research & Development

ST reported that there were no open risks recorded on Datix for escalation to February 2023 Research, Development & Innovation Sub-Committee, in line with the Trust Board Risk Appetite.

The Committee referenced that it will be important as we develop the implementation plans for the Cardiff Cancer Research Hub (CCRH), identifying potential risk and mitigating strategy to be an agenda item going forward.

**ACTION:** Post meeting discussion to be arranged with ST/LB/AW/JA around the CCRH going forward.

Secretariat

The Research, Development & Innovation Sub-Committee **NOTED** the update.

#### 4.0 STRATEGY, PERFORMANCE & DELIVERY

## 4.1 Trust Research, Development and Innovation Performance Report Led by Sarah Townsend, Head of Research & Development with support from the relevant leads:

ST provided an introduction on the Trust Research, Development & Innovation Performance Report for the Financial Year 2021-22 on the four strategic priorities that are also published within the Integrated Medium Term Plan (IMTP). This reports information on the Trust's national and global achievements and compliance against Health and Care Research Wales (HCRW) key performance indicators, including the following:

VELINDRE R&D AMBITIONS led by Libby Batt, Head of Cancer R&D Strategy, Velindre Futures

#### RADIOTHERAPY RESEARCH

Several groups have been established to ensure Radiotherapy Research continues to be a core function within Velindre with focused objectives and clear aims. The Radiotherapy Research Working Group has been set up to

bring representatives from the three departments in Radiotherapy together, along with representatives from Transforming Cancer Services (TCS). This collaborative group will share information with oversight of the Research Bunker in the new Velindre Cancer Centre (nVCC) as well as relevant bids going into Charitable Funds and Advancing Radiotherapy Funds (ARF). From this group, a subgroup has been formed and led by Professor John Staffurth to identify the preferred type of machine to go into the bunker that will facilitate and enhance the status of the nVCC/VCS/Trust as a UK/International research leader. Professor Staffurth has mentioned that he would be very happy to come and present the options appraisals at the next meeting of the Research, Development & Innovation Sub-Committee.

DM asked for clarification as to why JS was involved in doing an options appraisal for the regular research therapy and how does this align with the fact that we already have a have a research strategy with our current contract with Varian? LB/JA assured DM that it links in with the Integrated Radiotherapy Solution (IRS) and that JS is looking at the wider aspect of machinery to go into the Research Bunker, they are looking at all options and this does not compromise the relationship with Varian. JA also reiterated the need for keeping the Committee sited on all the ongoing work, and informed the Committee that JS has recently presented to Executive Management Board (EMB) and will come and present this information to the Research, Development & Innovation Sub-Committee.

Alongside this, the task and finish group are looking at capacity issues within the core Radiotherapy service continues to work together to identify solutions and next steps to collectively best address this topic.

**ACTION:** A representative from IRS to present at the next Private RD&I Sub-Committee on where they are up to in terms of the research strategy that was agreed with Varian.

Secretariat

#### **CELL THERAPY SITE VISIT**

The bid submitted to The Translational Knowledge Exchange and Training (TKET) Award was successful. This will fund a multidisciplinary team (medics, nurses, pharmacists) to visit Cell Therapy centres in Christie NHS Foundation Trust, Guy's Hospital and Newcastle upon Tyne Hospital. The Hub Senior Nurse is now leading on coordinating the visits and will collate learning from all staff groups that go on placements to be circulated and presented via workshops, training and webinar sessions within the Trust and with the Cardiff Cancer Research Hub partners.

#### **CARDIFF CANCER RESEARCH HUB**

 The tender for the development of an investment strategy closed at the end of September, but the bid was higher than the budget available. The wider feedback from the market was that more funding would be required to complete this piece of work. Further discussion is continuing with colleagues from the Project Board to further refine the scope of work and ensure this key piece of work is completed.

- Work on securing appropriate infrastructure at University Hospital of Wales (UHW) is continuing and the Hub will be included alongside other infrastructure development @UHW. This is now being led by Cardiff and Vale University Health Board (CVUHB) and they will merge the three sets of clinical specifications from the Hub, Haematology and Acute Oncology Service (AOS) into one master document (ensuring the space planned avoids duplication and maximises best use of space). The intention is that the strategic outline case will be completed by the end of March 2023, allowing time to channel via CVUHB and Welsh Health Specalised Services Committee (WHSSC) boards, before submission to Welsh Government (WG) in May 2023.
- The draft Heads of Terms are being finalized and will set out the governance principles between the organisations. This piece of work has been carried out between the R&D teams in VUNHST and the Joint Research Office (JRO), CU and CVUHB. The next step is a more detailed Memorandum of Understanding (MOU) which would cover all R&D activities between the three organisations.
- One of the three Research Priorities for the Hub is to 'Harmonise Regulations to facilitate a "can-do" research culture which maximises research activity and outputs.' To facilitate this piece of work, the Hub Senior Nurse has made links with Wales Cancer Bank (WCB) to identify how WCB could support and work with the Cardiff Cancer Research Hub on sample collection.
- A local agency to design the Hub branding and logo has now been appointed and are starting to collate colleagues' thoughts from across the three organisations to begin the design process.

## NURSING & INTERDISCIPLINARY RESEARCH led by Jane Hopkinson, Velindre Cancer Service Professor of Nursing and Interdisciplinary Cancer Care

The Velindre ambition for nurse and therapies cancer research is,

- To establish a Velindre Healthcare Cancer Research and Innovation (R&I) Centre of Excellence with a programme for transforming the safety and quality of cancer care.
- The Velindre Healthcare R&I Centre will be recognised nationally and internationally for service improvement informed by nurse and therapies led research and innovation.

Progress with achievement of the ambition includes infrastructure to support nurse and therapies led research. The following appointments have been made,

- Head of Healthcare Cancer Research (0.4wte)
- Healthcare Cancer Research Trials Nurse (0.2wte)
- Therapies Healthcare Cancer Research Data Manager (1wte)
- Velindre Research Associate (1wte)
- Velindre Research Assistant, Small Grants Award (0.8wte)

#### Administrative support

DM questioned whether these were new appointments or whether this was existing staff undertaking these roles and responsibilities. DM stated that this was one of the reasons that they were keen to support the Integrated bid and this component of it, to stop people squeezing in extra responsibilities over and above their role. JH asked whether to look at the previous model that they have been working on during the last two years, which is to support clinical staff with research assistant time, it was agreed for further discussions to take place outside of the Committee Meeting. NW assured the Committee that this is in discussion at the Healthcare Science Forum and it is an area of priority and is in-line with their advanced practise framework development for dedicated time for research.

**ACTION:** Post discussion meeting with DM/NW/JH to discuss the new appointments and the funding of fellowship schemes.

Secretariat

## WELSH BLOOD SERVICE UPDATE led by Peter Richardson, Head of Quality & Assurance, Welsh Blood Service & Dr Sian James, RD&I Facilitation Lead

- Healthcare Scientist of the Year congratulations to Chloe and the Component Development Lab team along with Sian James and her team and the Finance Team.
- Vaccine Distribution Project Team, who were deservedly shortlisted for the 'Improving Public Health Outcomes' Award.
- Welsh Blood Service RD&I Dashboard Sero-surveeillance project
- WBS RDI Strategy Project Update invitations now all circulated can you please engage in this.
- The support of the Biomedical Excellence for Safer Transfusion (BEST) Collaborative
- Key Performance Indicators of the Welsh Blood Service RD&I Strategy

#### 11.25am Peter Richardson left the Committee

### CHARITABLE FUNDS COMMITTEE RD&I INTEGRATED BID led by Christopher Cotterill Jones, Research Delivery Manager

CCJ reported progress against work and key achievements for Q3 of FY 2022/23 demonstrating activity against these strategic priority areas, the cross-cutting themes that support these areas and Trust RD&I corporate work, for example Finance. CCJ gave a brief update on the following:

- Summary of performance indicators
- Health and Care Research Wales Performance Dashboard
- Velindre Cancer Centre hosted research key achievements
  - OPTIMA
  - TROPION 02

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#### **VELINDRE UNIVERSITY NHS TRUST TRIAL TOP RECRUITERS!**

The Trust continues to be the top recruiter to this trial in the world - Study title: A Phase II Multi-Arm (basket) Trial Investigating the Safety and Efficacy of IO102-IO103 in Combination with Pembrolizumab, as First-line Treatment for Patients with Metastatic Non-Small Cell Lung Cancer (NSCLC), Squamous Cell Carcinoma of Head and Neck (SCCHN), or Metastatic Urothelial Bladder Cancer (mUBC)

Velindre University NHS Trust was the first site worldwide to recruit a participant to the IO102-IO103-022 trial, that aims to investigate the efficacy of IO102-IO103 in combination with pembrolizumab in the frontline treatment in each of the different metastatic solid tumour indications.

The Trust was the top recruiter to this trial in the UK - Study title: A Phase III Double-blind Randomised Study Assessing the Efficacy and Safety of Capivasertib + Fulvestrant Versus Placebo + Fulvestrant as Treatment for Locally Advanced (Inoperable) or Metastatic Hormone Receptor Positive, Human Epidermal Growth Factor Receptor 2 Negative (HR+/HER2-) Breast Cancer Following Recurrence or Progression On or After Treatment with an Aromatase Inhibitor (CAPItello – 291)

The purpose of this research study is to find out if a medication called capivasertib given with fulvestrant (a standard of care medication) will work more effectively than fulvestrant alone in treating patients with locally advanced (inoperable) or metastatic hormone receptor positive, human epidermal growth factor receptor 2 negative (HR+/HER2-) breast cancer. Capivasertib is not approved by any health authority, except for use in research studies.

#### **ONCACARE**

- The Trust aims to be an organisation synonymous with RD&I at a scale beyond the current offering and seeks to form strategic relationships with partners to achieve this.
- The Trust continues to work with Oncacare to explore the benefits of a collaboration.
- The Trust together with Cardiff & Vale University Health Board continues to negotiate a master collaboration agreement with Oncacare.

#### **RESEARCH STUDY DATA & PERFORMANCE MEASURES**

In Quarter 3, FY 2022/23 it was identified that there were some anomalies in the research study data measures captured by the Trust and the data captured by Health and Care Research Wales (HCRW).

From 01 April 2022, the only key indicators measured by HCRW are:

- Percentage of open studies recruiting to time and target
- Percentage of closed studies recruiting to target

The Trust's Head of Research & Development and Research Delivery Manager met with HCRW's Senior Research Performance Manager in February 2023.

The anomalies and discrepancies were discussed in detail. A plan for further investigation and actions to rectify the issues was agreed. Actions that could be taken immediately have taken place.

### BY YOUR SIDE APP – Localising Pfizer's Global Patient Cancer App led by Ross McLeish, Innovation Project Manager

The Patient Solutions Team at Pfizer are looking to improve their cancer 'By Your Side' website and mobile app. This is a digital solution that supports patients with cancer in managing their health, wellness, and everyday life. 'This is Living With Cancer (TLWC)' known as By Your Side (BYS) in the UK, this is an existing application available for all cancer patients to help their general well-being and daily tasks. TLWC/BYS aims to be a one-stop repository of support for cancer patients, but to be more effective, it could better tailor its content to patient need. The challenge is to localise web and app content to be most useful for each patient using the app. The longer-term aim could be to offer a simple and personalized connector solution to empower cancer patients to live the best lives they can.

The combined Velindre and Pfizer team had a sprint project that they delivered in three months. The project aimed to have piloted a new localisation concept for BYS and evaluate it for consideration of larger programme scaling to geographical areas with other partners. Pfizer's objective with the new concept is to offer a simple personal experience to patients looking for day-to-day support utilising a digital platform for their health management and ability to connect easily to local specialised support when expert follow-up is needed.

Velindre was the first project in the UK selected by Pfizer and the project was delivered to budget and time. The project was supported by input from healthcare professionals and cancer patients and included:

- A new tailored and fit for purpose contract
- An Agile Project Methodology
- Defined functional requirements
- Four design workshops including patients, carers, and Subject Matter Experts (SMEs)
- Incorporated user metrics
- Delivery of Patient and HCP insights and recommendations for scalability

#### Phase 2 Proposal

Following the success of the project, Pfizer has approached Velindre to conduct a Phase 2 of BYS localisation, with a view to implement the

suggestions and feedback given by Velindre Cancer Centre patients during the initial workshops and make the app available to all our service users.

Successful implementation of this Phase will provide Velindre with a readymade patient app that has centralised, and localised information pulled directly from the Trust website, available to our users within its own 'My Centre' section. Velindre will be the first Trust in the UK to have this feature available to our patients.

Discussions took place in January 2023 between the Innovation Project Manager, Executive Lead for Innovation and Chief Digital Officer to provide an overview of the project outcomes and requirements for both Velindre and Pfizer before the Trust proceeds with the project. Following this, a paper was presented to EMB and SLT. Pfizer provided a draft report of the pilot project for review.

DM explored whether the execution of a commercialisation agreement between the Trust and Pfizer is required for the use of Velindre data? JA confirmed that EMB discussed the same issues but also to address the data, in terms of being an asset function.

**ACTION:** RMcL to explore and address these issues and provide assurance to the Committee in due course.

RMcL/ST

#### **HEAD OF INNOVATION** (occurred following the RDI Sub-Committee)

Dr Jacinta Abraham, Executive Medical Director and R&D Lead would like to confirm that Jennet Holmes has been appointed as Head of Innovation and will take up position at the end of June / early July 2023.

## RD&I FINANCE UPDATE *led by Jonathan Patmore, R&D Finance Manager*

The Finance Report outlined the financial position and performance for Quarter 3, FY 2022/23. The following was highlighted by JP:

The RD&I Division includes the R&D Office, Research Nursing Delivery Teams, Early Phase Team, Innovation Team and administrative staff such as Trials Coordinators and Data Managers. Along with a significant number of individual study budgets, this comprises most of the Trust's research and innovation activity and is the subject of this finance report. Outside of this report, some staff managed outside the RD&I Division, e.g. pharmacy and radiotherapy research staff, are reported as part of the relevant Divisional reports (e.g. VCS).

For 2022/23 the overall RD&I Financial Plan comprises targets to:

- Spend £3.0m on research activities, of which 93% (£2.8m) is salary costs, including:
  - Management, trial support, data, and administrative staff (40%)
  - Nursing staff (33%)
  - Medical staff (13%)

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Secure income of £3.25m from multiple sources, most significantly: Health & Care Research Wales (34%) Reimbursements from commercial clinical trials (22%) Support from the Velindre charity (26%) • Manage a further **c. £500k**, held in grant funding from external bodies, such as Cancer Research UK, for specific research trials led by VUNHST. The Research, Development & Innovation Sub-Committee NOTED the RD&I Integrated Performance Report for Quarter 3 of the Financial Year 2022/23. 5.0 CONSENT AGENDA The consent part of the agenda considers routine Committee business as a single agenda item. Members may ask for items to be moved to the main agenda if a fuller discussion is required. 5.1 **CONSENT - FOR APPROVAL** 5.1.1 Draft Minutes from the Public Research, Development & Innovation Committee held on the 15th November 2022 Led by Professor Andrew Westwell, Chair of the Research, Development & Innovation Sub-Committee The Research, Development & Innovation Sub-Committee APPROVED the Minutes of the Public Meeting held on the 15th November 2022 as an accurate reflection of proceedings. 5.1.2 **Intellectual Property Policy** Led by Sarah Townsend, Head of Research & Development The Intellectual Property Policy was circulated to the Committee for comments and an updated version was submitted with tracked changes and a clean version as in Appendix 1 & 2. A summary of the key changes below: Clarification of the scope of the policy in relation to staff who generate IP while studying and hosted students who are not employees Clearer flagging of public disclosure issues Minor changes of language to improve accuracy and clarity Removal of outdated references

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Appendix 1 Intellectual Property (IP) Policy v6 with Tracked Changes

		T	
	Appendix 2 Intellectual Property (IP) Policy_v6 Clean Version		
	The Research, Development & Innovation Sub-Committee <b>APPROVED</b> the Trust Intellectual Property Policy. The IP policy will be on the Trust Board agenda on the 30 <sup>th</sup> March 2023 in the Policies Approved Update Report and will be reviewed in one year from the date of approval.		
5.2	CONSENT - FOR ENDORSEMENT		
	No Items for Endorsement.		
5.3	CONSENT - FOR NOTING		
5.3.1	Draft Summary of the Minutes from the Private Research, Development & Innovation Committee held on the 15th November 2022  Led by Professor Andrew Westwell, Chair of the Research, Development		
	& Innovation Sub-Committee		
	The Research, Development & Innovation Sub-Committee <b>NOTED</b> the Summary Minutes of the Private Meeting held on the 15th November 2022.		
6.0	ANY OTHER BUSINESS		
6.1	Prior Approval by the Chair Required		
	No prior items have been raised for consideration under Any Other Business.		
7.0	HIGHLIGHT REPORT TO THE TRUST QUALITY SAFETY & PERFORMANCE COMMITTEE		
	Members to identify items to include in the Highlight Report to the Trust Board:		
	For Escalation		
	• Nil		
	For Advising		
	<ul><li>Radiotherapy Research</li><li>Head of Innovation</li></ul>		
	For Assurance		
	<ul> <li>Trust RD&amp;I Sub-Committee Risk Register Extract</li> <li>TRUST Research, Development, and Innovation Performance Report 2021/2022</li> <li>Intellectual Property (IP) Policy</li> </ul>		
	For Information		
1		1	

	<ul> <li>Palliative and Supportive Care Research, Building On Success Presentation</li> </ul>			
	Executive Medical Director Briefing			
	WBS Healthcare Scientist of the Year			
	The RD&I Sub-Committee <b>APPROVED</b> the above items to be included in the Highlight Report to the Quality Safety & Performance Committee.			
	<b>ACTION:</b> ST to support the development of a draft Highlight Report for approval by the Research, Development & Innovation Sub-Committee	0.7		
	Chair. ST			
8.0	DATE AND TIME OF THE NEXT MEETING:			
	The next meeting of the Research, Development and Innovation Sub-Committee will be held in person on the <b>4th July 2023 at 2.00pm at Trust Headquarters, Nantgarw</b> .			
9.0	CLOSE			
	The Research, Development and Innovation Sub-Committee is asked to adopt the following resolution: That representatives of the press and other members of the public be excluded from the remainder of this meeting having regard to the confidential nature of the business to be transacted, publicity on which would be prejudicial to the public interest in accordance with Section 1(2) Public Bodies (Admission to Meetings) Act 1960 (c.67).			

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	PUBLIC RESEARCH, DEVELOPMENT & INNOVATION SUB-COMMITTEE ACTION LOG				
Minute Number	Action		Progress to Date	Target Date	Status (Open/Closed)
		Actions agreed at the 0	Committee on the 28th February 2023		
1.1	Palliative and Supportive Care Research, Building On Success Presentation: Post meeting discussion to be arranged with DM/ AB/Palliative Care Team around the portfolio research methods adopted and how to take forward.	AB / SMC	UPDATE 04/07/2023 Currently liaising with Professor Anthony Byrne to secure meeting date.	04/07/2023	OPEN
3.2	Trust RD&I Sub-Committee Risk Register Extract: Post meeting discussion to be arranged with ST/LB/AW/JA around the CCRH going forward.	SMC	<b>UPDATE 04/07/2023</b> Post discussion meeting held on the 23/05/23 to discuss the visibility of RD&I risks and future reporting of risks on datix for escalation to the RD&I Sub-Committee in line with the Trust Board Risk Appetite. It will be important as we develop the implementation plans for the Cardiff Cancer Research Hub (CCRH), identifying potential risk and mitigating strategy to be an agenda item going forward.	04/07/2023	CLOSED
4.1(a)	Nursing & Interdisciplinary Research : Post discussion meeting with DM/ NW/JH to discuss the new appointments and the funding of fellowship schemes.	NW / JH	UPDATE 04/07/2023 Discussion meeting held and funding agreed as part of overarching research bid. Velindre Healthcare Cancer Research Fellowships currently advertised.	04/07/2023	CLOSED
4.1(b)	BY YOUR SIDE App: Explore whether the execution of a commercialisation agreement between the Trust and Pfizer is required for the use of Velindre data.	ST / RMcL	UPDATE 04/07/2023 Currently liaising with the Research Contracts Manager and will report back to the RD&I Sub-Committee in due course. We have received from Pfizer a "donation agreement" which provides for Pfizer to make the functionality of the App available to the Trust. It is recommended that the Trust seeks advice from NWSSP Legal and Risk on the suitability of this agreement.	04/07/2023	OPEN
		Actions agreed at the C	ommittee on the 15th November 2022		
4.1.0	Activity Data Benchmarking with other UK Cancer Centres: R&D to undertake a more detailed scoping exercise with each organisation to determine resources, staff, equipment and present findings at a future meeting.	ST	UPDATE 04/07/2023 Benchmarking work has commenced in line with the research ambitions and the Cardiff Cancer Research Hub. This data will be included in the annual presentation and be received at December's RD&I Sub-Committee.	07/12/2023	OPEN
4.2.1	RDI Performance Report - Radiotherapy Research : Work is underway to identify and implement mitigation strategies to improve the Radiotherapy service's capacity in terms of research studies and the wider service, a report to be made available at the next RDI Sub-Committee Meeting.	ST	UPDATE 04/07/2023 Radiotherapy Trials Research Group has been established to identify issues and implement potential solutions. A Radiotherapy Research Portfolio Group has also been established to oversee the radiotherapy portfolio. Outcomes from the Radiotherapy Trials Research Group will be presented and be received at December's RD&I Sub-Committee.	07/12/2023	OPEN

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#### Research, Development & Innovation Sub-Committee

#### **Executive Briefing to RD&I Sub-Committee**

DATE OF MEETING	20/07/2023		
PUBLIC OR PRIVATE REPORT	Public	Public	
IF PRIVATE PLEASE INDICATE REASON	Not Applicable - Public Report		
PREPARED BY	Sarah Townsend, Head of Research & Development Christopher Cotterill-Jones, Research Delivery Manager		
PRESENTED BY	Jacinta Abraham, Executive Medical Director		
EXECUTIVE SPONSOR APPROVED	Jacinta Abraham, Executive Medical Director		
REPORT PURPOSE	FOR NOTING		
COMMITTEE/GROUP WHO HAVE RECEIVED OR CONSIDERED THIS PAPER PRIOR TO THIS MEETING			
COMMITTEE OR GROUP	DATE	OUTCOME	

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Not applicable



#### 1. SITUATION / BACKGROUND

The purpose of this paper is to report a high-level update on Research, Development & Innovation activities taking place in Quarter (Q) 4 of Financial Year (FY) 2022/23.

#### 2. ASSESSMENT / SUMMARY OF MATTERS FOR CONSIDERATION

#### 2.1. Welsh Blood Service

#### 2.1.1. Advancing Kidney Transplant Treatments

Executive Briefing Slides = slide 3

Felicity May has been awarded her Doctor of Clinical Science after fulfilling the five-year rigorous demands of NHS's Higher Specialist Scientist Training programme. Felicity undertook an NHS Research study during the programme, looking at improving desensitisation treatments for renal patients.

Sensitisation is a complex clinical problem that greater effect transplant suitability in some patient groups. Felicity's project is a step towards understanding why some transplant patients do not respond to desensitisation treatment. Felicity's research will aid further studies which hope to minimise unnecessary treatment for kidney transplant patients and inform alternative treatments.

Felicity's achievement placed her at the forefront of histocompatibility and immunogenetics field.

#### 2.2. Research and Development

#### 2.2.1. Joint Executive Team meeting

Executive Briefing Slides = slide 4

Welsh Government have regular engagements and monitoring meetings to assure themselves that an NHS organisation's Integrated Medium-Term Plan delivery is on track. This includes Joint Executive Team meetings to discuss progress against IMTP delivery.

The Trust's Joint Executive Team (JET) meeting was convened on 19 May 2023, where the Trust's Executive Team presented on the Trust's progress against planned delivery.

Dr Jacinta Abraham presented on the work of the Trust's RD&I Division covering the work of:

Welsh Blood Service

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- Research & Development
- Innovation
- Trust performance against Health & Care Research Wales key indicators for research

The Trust's RD&I activity received positive interest at the JET meeting. There was recognition of the award given to Healthcare scientist Chloe George. Also, it was noted that Velindre Cancer centre were leading globally by being the first to recruit into a lung study as well as being a top recruiter of international studies.

#### 2.2.2. Cardiff Cancer Research Hub(CCRH)

Executive Briefing Slides = slide 4

A Translational Knowledge Exchange and Training (TKET) Award (funded via Cardiff University) supported successful visits, by multi-disciplinary teams, to benchmark against three UK Cancer Centres of Excellence:

- The Christie NHS Foundation Trust
- Guy's and St. Thomas' NHS Foundation Trust
- Newcastle Hospitals NHS Foundation Trust

The CCRH Senior Research Nurse led the coordination of the visits and will collate the learning from all staff groups to be circulated and presented. These visits have built excellent links and shared learning. This is a real success story of a collaborative effort driven by Cardiff Cancer Research Hub.

The CCRH has seen real measurable progress over the last 12 months. Highlights include:

The draft Heads of Terms setting out the governance principles between the organisations are being finalised. This piece of work has been carried out between the R&D teams in VUNHST and the Joint Research Office CU and CVUHB

Funds have been secured to commission external experts to develop a Strategic Investment Case to holistically address how the Hub will be financially sustainable for the future. Moorhouse Consulting has been commissioned to lead this initiative. It is envisaged that a more detailed Memorandum of Understanding (MOU) which would cover the leadership arrangements and financial model for the Hub, to follow this piece of work.

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The team are already developing the CCRH trials portfolio. At the end of March 2023, one trial was open, and four trials were in set up.

#### 2.2.3. First in the World and Europe

Executive Briefing Slides = slide 5

STUDY TITLE: I0102-I0103-022. A Phase II Multi-Arm (basket) Trial Investigating the Safety and Efficacy of IO102-IO103 in Combination with Pembrolizumab, as First-line Treatment for Patients with Metastatic Non-Small Cell Lung Cancer (NSCLC), Squamous Cell Carcinoma of Head and Neck (SCCHN), or Metastatic Urothelial Bladder Cancer (mUBC).

Velindre was the first worldwide site to randomise a patient into a study investigating a new drug in Patients with Metastatic Non-Small Cell Lung Cancer (NSCLC), Squamous Cell Carcinoma of Head and Neck (SCCHN), or Metastatic Urothelial Bladder Cancer (mUBC), and remains the world's highest recruiter.

STUDY TITLE: TROPION 03. A Phase 3 Open-label, Randomised Study of Datopotamab Deruxtecan (Dato-DXd) With or Without Durvalumab Versus Investigator's Choice of Therapy in Patients With Stage I-III Triple-negative Breast Cancer Who Have Residual Invasive Disease in the Breast and/or Axillary Lymph Nodes at Surgical Resection Following Neoadjuvant Systemic Therapy

Velindre was the first site in Europe to randomise a patient into a study in patients with Stage I-III Triple-negative Breast Cancer and remains top UK recruiter and is the fourth highest recruiter in the world.

#### 2.2.4. OnCovid Publications

Executive Briefing Slides = slide 5

STUDY TITLE: OnCovid - Natural history and outcomes of cancer patients during COVID19 epidemic.

The Trust supported the OnCovid: natural history and outcomes of cancer patients during the COVID19 epidemic study. The overarching purpose of this retrospective, non-interventional study is to describe the features of COVID-19 infection in cancer patients, investigate its severity in this population and evaluate long-term outcomes.

The trial findings highlighted a consistent reduction of COVID-19 severity in patients with breast cancer during the Omicron outbreak in Europe. The study also

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demonstrated that even in this population, a complete severe acute respiratory syndrome coronavirus 2 vaccination course is a strong determinant of improved morbidity and mortality from COVID-19.

The Trust's Research Nurse Team Lead, Amanda Jackson, and Head of Research Development, Sarah Townsend, have been listed as authors in a paper published in the Lancet Oncology journal. Amanda Jackson has also been listed in author in a paper published in Journal of Clinical Oncology.

Velindre were also recognised as a contributing organisation in a meeting abstract at the 2022 ASCO Annual Meeting.

#### 2.2.5. Health and Care Research Wales: Research Framework

Executive Briefing Slides = slide 6

During winter/spring 2023, Health and Care Research Wales (HCRW) facilitated the co-creation of an NHS Research & Development (R&D) framework with key stakeholders through a series of workshops asking delegates what was needed enable NHS organisations to integrate research into healthcare and the next steps to ensure successful framework development and delivery.

The draft framework document outlining what 'research excellence looks like' within NHS organisations in Wales where research is embraced, integrated into services and is a core part of the organisation's culture was published for consultation in May 2023.

Trust representatives attended the workshops that informed the key themes of the framework document.

The Trust submitted comments in response to the consultation of the draft NHS R&D Framework by the required deadline of 01 June 2023.

#### 2.2.6. **BioWales 2023, London**

Executive Briefing Slides = slide 6

BioWales 2023 took place in London on 14 March 2023. The event is a flagship event for the thriving and dynamic life sciences sector in Wales.

BioWales 2023 provided a platform to discuss:

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- Significant developments around clinical innovation, medical technology and diagnostics.
- Exciting new innovations and companies looking for investment and collaborations, including presentations from Welsh companies at various stages in their investor journey
- Highlights from NHS innovation and research collaboration opportunities.

The event also included a session on "Working with the Welsh NHS" discussing clinical access, adoption, and clinical trials.

Trust delegates attended this successful event.

#### 2.3. Innovation

#### 2.3.1. Wales Innovation Strategy

Executive Briefing Slides = slide 7

Welsh Government launched a new Innovation Strategy "Wales Innovates: Creating a Stronger, Fairer, Greener Wales" in February 2023.

The new Innovation Strategy:

- Sets out aspiration for Wales to be a leading, innovation-based nation.
- Focuses on ensuring innovative new technologies are developed to help solve the biggest challenges facing communities, ensuring those solutions reach every part of society.
- Through collaboration, the aim is to bring about better healthcare, tackling the climate and nature emergencies and creating better jobs and prosperity for businesses, universities, and local communities.

The strategy adopts a "mission based" attitude and will work with government's Health and Wellbeing agenda to see the health and social care sector collaborate with industry, academia and the third sector to deliver new ways of working that deliver greater value and impact for citizens.

#### 2.3.2. Innovation Lead

Executive Briefing Slides = slide 7

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The new Head of Innovation, Jennet Holmes, will be joining the Trust on 30 June 2023, from Welsh Government where she was Head of Innovation and Collaborative Partnerships.

Jennet will take the lead on the implementation of the Trust's innovation strategy and ensure alignment with the Wales Innovation Strategy.

#### 2.3.3. Wales Innovation Strategy

Executive Briefing Slides = slide 7

https://www.gov.wales/innovation-strategy-wales

#### 2.3.4. VCC Talking Heads

The "Talking Heads" sub-project is an exciting new piece of work to produce a series of two-minute videos to introduce individual Clinical & Healthcare staff and their roles. The videos will be embedded within the RITA Chatbot virtual assistant when a patient asks a question relating to that clinical area. The videos will also be available on the Trust website.

These videos will help and give patients, family, and carers opportunity to:

- understand the role of their key clinicians and healthcare staff,
- view clinical areas and the cancer centre site before their visit,

hopefully easing and reducing their anxiety of having to attending Velindre Cancer Centre.

#### 3. IMPACT ASSESSMENT

QUALITY AND SAFETY IMPLICATIONS/IMPACT	There are no specific quality and safety implications related to the activity outined in this report.	
RELATED HEALTHCARE STANDARD	Governance, Leadership and Accountability     Standard 3.3 Quality Improvement,     Research and Innovation	
	Standard 3.4 – Information Governance and Communications Technology	

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	Standard 3.5 – Record Keeping
EQUALITY IMPACT ASSESSMENT COMPLETED	Yes  We have considered the importance of equality impact in the writing of this report and there are no matters of concern to raise.
LEGAL IMPLICATIONS / IMPACT	There are no specific legal implications related to the activity outlined in this report.
FINANCIAL IMPLICATIONS / IMPACT	There is no direct impact on resources as a result of the activity outlined in this report.

#### 4. RECOMMENDATION

It is recommended that the RD&I Sub-Committee note for discussion the presentation and report.

# Research, Development & Innovation (RD&I) Sub-Committee 20<sup>th</sup> July 2023

Executive Lead Briefing

Dr. Jacinta Abraham, Executive Medical Director



## Content

- Welsh Blood Service
  - Advancing Kidney Transplant Treatments
- Research & Development
  - Joint Executive Team Meeting
  - Cardiff Cancer Research Hub
  - First in the World and Europe
  - OnCovid Publications
  - Health and Care Research Wales: Research Framework
  - BioWales 2023, London
- Innovation
  - Wales Innovation Strategy
  - Innovation Lead
  - RITA "Talking Heads" Sub-project



## Velindre University NHS Trust RDI: Welsh Blood Service

#### **Advancing Kidney Transplant Treatments**

- Felicity May has been awarded her Doctor of Clinical Science after fulfilling the five-year
   NHS Higher Specialist Scientist Training programme.
- Felicity's achievement placed her at the forefront of histocompatibility and immunogenetics field.
- A research study undertaken during the programme, looking at improving desensitisation treatments for renal patients.
- Sensitisation is a complex clinical problem that greater effect transplant suitability in some patient groups.
- The project is a step towards understanding why some transplant patients do not respond to desensitisation treatment. Felicity's research will aid further studies which hope to minimise unnecessary treatment for kidney transplant patients and inform alternative treatments.



## Velindre University NHS Trust RDI: Research & Development

#### **Joint Executive Team meeting**

- The Trust's Joint Executive Team (JET) meeting with Welsh Government was convened on 19 May 2023.
- Dr. Jacinta Abraham presented on the work of the Trust's RD&I Division covering the work of:
  - Welsh Blood Service
  - Research & Development
  - Innovation
  - Trust performance against Health & Care Research Wales key indicators for research
- The Trust's RD&I activity received positive interest at the JET meeting.

#### **Cardiff Cancer Research Hub**

- A Translational Knowledge Exchange and Training (TKET) Award supported successful visits to:
  - Christie NHS Foundation Trust
  - Guy's & St.Thomas' NHS Foundation Trust
  - Newcastle Hospitals NHS Foundation Trust
- This knowledge sharing/learning has built excellent links with the outputs shaping further Trust developments.
- At end of March 2023, 1 "Hub" trial was open, with another 4 in set-up



## Velindre University NHS Trust RDI: Research & Development

#### First in the World and Europe

- Velindre was the first worldwide site to randomise a patient into a study investigating a new drug in Patients with Metastatic Non-Small Cell Lung Cancer (NSCLC), Squamous Cell Carcinoma of Head and Neck (SCCHN), or Metastatic Urothelial Bladder Cancer (mUBC), and remains the world's highest recruiter.
- Velindre was the first site in Europe to randomise a patient into a study in Patients With Stage I-III Triplenegative Breast Cancer, and remains top UK recruiter.

#### **OnCovid Publications**

- The Trust supported the "OnCovid: natural history and outcomes of cancer patients during the COVID19 epidemic" study.
- The Trust's Research Nurse Team Lead, Amanda Jackson, and Head of Research Development, Sarah Townsend, have been listed as authors in a paper published in the Lancet Oncology journal. Amanda Jackson has also been listed in author in a paper published in Journal of Clinical Oncology.

## **Velindre University NHS Trust RDI: National Context**

## Health and Care Research Wales: Research Framework

- Health and Care Research Wales (HCRW) facilitated the co-creationcreation of an NHS Research & Development (R&D) framework with key stakeholders through a series of workshops.
- The draft framework document outlining what 'research excellence looks like' within NHS organisations in Wales was published for consultation in May 2023.
- The Trust submitted comments in response to the consultation of the draft NHS R&D Framework by the required deadline of 01 June 2023.

#### BioWales 2023, London

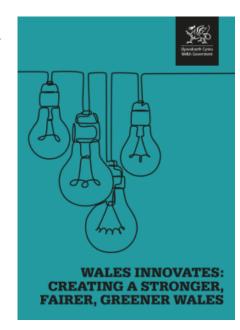


- BioWales 2023 London took place on 14
   March 2023, a flagship event for the thriving and dynamic life sciences sector in Wales.
- Providing a platform to discuss clinical innovations, medical technology and diagnostics, the event highlights NHS innovation and research collaboration opportunities.
- The event included a "Working with the Welsh NHS" session discussing clinical access, adoption and clinical trials.

## Velindre University NHS Trust RDI: Innovation

#### **Wales Innovation Strategy**

- Welsh Government launched a new Innovation Strategy "Wales Innovates: Creating a Stronger, Fairer, Greener Wales" in February 2023.
- The new Innovation Strategy Sets out aspiration for Wales to be a leading, innovation based nation.
- The strategy adopts a "mission based" attitude and will work with the government's Health and Wellbeing agenda, collaborating with various stakeholders to deliver greater value and impact for citizens.



#### **Innovation Lead**

The new Head of Innovation, Jennet Holmes, will be joining the Trust on 30 June 2023, from Welsh Government where she was Head of Innovation and Collaborative Partnerships.

#### RITA – "Talking Heads" VCC Sub-project

A series of two-minutes "Talking Head" videos introducing Velindre staff and their roles are being produced to giving patients opportunity to view clinical areas and the site before attending any appointments.



#### Research, Development & Innovation Sub-Committee

## RD&I Integrated Performance Report – Annual Report (including Q4 update) FY2022/23

DATE OF MEETING	20/07/2023	
PUBLIC OR PRIVATE REPORT	Public	
IF PRIVATE PLEASE INDICATE REASON	Not Applicable - Public Report	
PREPARED BY	Sarah Townsend, Head of Research & Development & Christopher Cotterill-Jones, Research Delivery Manager	
PRESENTED BY	Sarah Townsend, Head of Research & Development	
EXECUTIVE SPONSOR APPROVED	Jacinta Abraham, Executive Medical Director	
REPORT PURPOSE	FOR NOTING	

COMMITTEE/GROUP WHO HAVE RECEIVED OR CONSIDERED THIS PAPER PRIOR TO THIS MEETING			
COMMITTEE OR GROUP	DATE	OUTCOME	
RD&I Operational Management Group	30/05/2023	Discussed and updated	
Executive Management Board	05/06/2023	Discussed and updated	

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#### 1. SITUATION / BACKGROUND

At the meeting convened on 28 February 2023 the RD&I Sub-Committee received the Research, Development, & Innovation (RD&I) Integrated Performance Report for Financial Year (FY) 2022/23, Quarter (Q) 3.

The RD&I Sub-Committee receives the RD&I Integrated Performance Report quarterly throughout the financial year.

#### 2. ASSESSMENT / SUMMARY OF MATTERS FOR CONSIDERATION

This RD&I Integrated Performance Annual Report (including Quarter 4 update) summarises the activities of the Trust's Research, Development, & Innovation function during the financial year 2022/23.

#### 3. IMPACT ASSESSMENT

QUALITY AND SAFETY IMPLICATIONS/IMPACT	There are no specific quality and safety implications related to the activity outined in this report.		
	Governance, Leadership and Accountability  • Standard 3.3 Quality Improvement,		
RELATED HEALTHCARE STANDARD	Research and Innovation		
STANDARD	Standard 3.4 – Information Governance		
	<ul><li>and Communications Technology</li><li>Standard 3.5 – Record Keeping</li></ul>		
	Standard 3.5 – Necord Neeping		
EQUALITY IMPACT ASSESSMENT COMPLETED	Not required		
LEGAL IMPLICATIONS / IMPACT	There are no specific legal implications related to the activity outlined in this report.		
FINANCIAL IMPLICATIONS / IMPACT	There is no direct impact on resources as a result of the activity outlined in this report.		

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#### 4. RECOMMENDATION

It is recommended that the RD&I Sub-Committee note for discussion the RD&I Integrated Performance Annual Report (including Quarter 4 update) for the financial year 2022/23.

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Research, **Development** & Innovation Integrated **Performance Report** 

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## **ABBREVIATIONS**

A&E Accident & Emergency
AHP Allied Health Professionals

AHW A Healthier Wales

ASCO American Society of Clinical Oncology ATMP Advanced Therapy Medicinal Product

BVLS Beyond Visual Line of Sight

BYS By Your Side C&V Cardiff & Vale

CARIN Clinical Academic Roles Implementation Network

CCRH Cardiff Cancer Research Hub

CEO Chief Executive Officer
CI Chief Investigator

CIU Chemotherapy Inpatient Unit CT Computerised Tomography

CU Cardiff University

CVUHB Cardiff & Vale University Health Board

DGH District General hospital
DHCW Digital Health & Care Wales
DRD DNA Repair Deficiency

EMB Executive Management Board

EMRTS Emergency Medical Retrieval and Transfer service

FDA Food and Drug Administration

FY Financial Year

HCP Healthcare Professional

HCRW Health and Care Research Wales

HS&DR Health and Social Care Delivery Research

IMTP Integrated Medium-Term Plan KPI Key Performance Indicator

LPMS Local Portfolio Management System MOU Memorandum of Understanding

MSc Master of Science

mUBC Metastatic Urothelial Bladder Cancer

NDA New Drug Application
NHS National Health Service

NIHR National Institute for Health and Care Research

NSCLC Non-Small Cell Lung Cancer vcc New Velindre Cancer Centre

ODP Open Data Platform

OMG Operational Management Group
PCIP Planned Care Innovation Programme

PDUFA Prescription Drug User Fee Act
PFS Progression Free Survival

PhD Doctor of Philosophy

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PI Principal Investigator

Q Quarter

R&D Research & Development R&I Research & Innovation RAG Red, Amber, Green

RD&I Research, Development & Innovation

RfPB Research for Patient Benefit

RIC Regional Innovation Coordination
RICH Regional Innovation Coordination I

RICH Regional Innovation Coordination Hubs
RIC Research, Innovation, Improvement Coordinating

DT TDO De die de energe Triel De réfeile Oceans

RT-TPG Radiotherapy Trial Portfolio Group

SAC Snowdonia Aerospace

SACT Systemic Anti-Cancer Treatment

SCCHN Squamous Cell Carcinoma of Head and Neck

SERD Selective Estrogen Receptor Degrader

SOC Standard Of Care

TCS Transforming Cancer Services

TKET Translational Knowledge Exchange and Training

TLWC This is Living With Cancer UHW University Hospital of Vales

UK United Kingdom US United States

USA United Stated of America VCC Velindre Cancer Centre

VUNHST Velindre University NHS Trust

WAST Welsh Ambulance Service NHS Trust

WBS Welsh Blood Service WTE Whole time Equivalent

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## INTRODUCTION

This report reflects the RD&I strategic priorities published in the Velindre University NHS Trust's Integrated Medium-Term Plan (IMTP) that has been updated for 2022 to 2025.

These priorities that support the Trust's strategic goal to be "A beacon for research, development and innovation" are as follows:

STRATEGIC P	<u>RIORITIES</u>
Priority 1	The Trust will drive forward the implementation of its Cancer Research and Development Ambitions 2021-2031.
Priority 2	The Trust will maximise the Research and Development ambitions of the Welsh Blood Service.
Priority 3	The Trust will implement the Velindre Innovation Plan.
Priority 4	The Trust will maximise collaboratively opportunities locally, nationally, and internationally.

The report includes the progress of work and key achievements for Financial Year(FY) 2022/23 including Quarter(Q) 4 update demonstrating activity against these strategic priority areas, the cross-cutting themes that support these areas and Trust RD&I corporate work, for example Finance.

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## **STRATEGIC PRIORITY 1:**

The Trust will drive forward the implementation of its Cancer Research & Development Ambitions

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## 1 Velindre Cancer Research & Development Ambitions

# 1.1 Implementing the Velindre Cancer Research & Development (R&D) Ambitions – An Integrated Business Case 2023-2026

The team led with the RD&I Senior Management Business Team a successful R&D integrated bid that was approved by Velindre Charitable Funds in January 2023. The bid was ambitious in its scope, embedding different areas of research and generating new and exciting key posts within R&D. Charitable funds commended the fact that the bid brought R&D together in one integrated bid and was supportive of its ambition. The bid funds 118.7WTE (of which 49.9WTE are new, includes co-funded posts) which financially equates from £6.513m over 3 years down to £4.484m (dependent on cost savings and income from several sources). There was key advice from the Charitable Funds Committee to ensure non staff costs are also factored in. There is ongoing discussion around non-staff costs and the governance arrangements surrounding the bid. A date has been set to meet with VUNHST's Chair.

The Integrated bid includes Late Phase and Early Phase and ATMP clinical trials, Radiotherapy research. New areas of research include Translational Research, Health Care Research (led by multi-professional groups), and Palliative and Supportive Care research. It also focuses on building capacity and capability across the organisation's workforce, addressing how we can develop a sustainable and robust workforce that embraces research.

Next steps are to bring in all of these new posts which includes an RD&I Communications and Engagement Officer. This key role will be part of the corporate team with a remit to support and coordinate RD&I communications with patients, public, staff and other stakeholders about RD&I matters (Welsh Blood Service (WBS) and Velindre Cancer Centre (VCC).

The Implementation team are also working with each research area on developing Action Plans, integrating the objectives from the R&D strategy with the objectives from the integrated bid, to enable each area to demonstrate measurable progress. All the objectives from the bid and the strategy have strong alignment with obvious crossover and will provide a clear roadmap for R&D for the next 10 years.

### 1.2 Radiotherapy Research

In the last year, a number of groups have been set up within Radiotherapy Research to ensure Radiotherapy Research continues to be a core function within Velindre with focused objectives and clear aims.

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The Radiotherapy Research Working Group has been set up to bring representatives from the three departments in Radiotherapy together, along with representatives from TCS. This collaborative group will share information with oversight of the Research Bunker in nVCC as well as relevant bids going into Charitable Funds and Advancing Radiotherapy Funds. From this group, a Task and Finish Subgroup has been formed to conduct an options appraisal, identifying the preferred type of machine to go into the research bunker that will facilitate and enhance the status of the nVCC/VCC/Trust as a UK/International research leader.

The Radiotherapy Trials Research Solutions Group is a collaborative task and finish group seeking to identify and address capacity issues within the core Radiotherapy service. With representation across the three departments within Radiotherapy, the group has identified short-, medium- and long-term issues and is collectively looking at the best ways to provide solutions. This group is starting to deliver real traction and aim to provide more details on the changes they are making to the department later this year.

#### 1.3 Cardiff Cancer Research Hub (CCRH)

#### **Cell Therapy Site Visits**

The bid submitted to The Translational Knowledge Exchange and Training (TKET) Award (funded via Cardiff University) was successful. This has funded a multidisciplinary team (medics, nurses, pharmacists) to visit Cell Therapy centres in Christie NHS Foundation Trust, Guy's Hospital and Newcastle upon Tyne Hospital. The CCRH Senior Research Nurse has led on coordinating the visits and will collate the learning from all staff groups to be circulated and presented via workshops, training and webinar sessions within the Trust and with the Cardiff Cancer Research Hub partners. Organising these visits has resulted in building excellent links with the centres and has shown that there is a real appetite for this shared knowledge. These visits and the resulting shared learning are a fantastic output from the bid and is a real success story of a collaborative effort driven by Cardiff Cancer Research Hub.

The CCRH has seen real measurable progress over the last 12 months. All teams from the three organisations have been driving it forward and showing true commitment to bringing this innovative Hub, with cutting edge treatment, to the people of Wales. Highlights include:

- A project of this size and complexity will take time to embed but whilst key
  pieces of work are being developed to get the Hub officially opened, the team
  are already developing the trials portfolio. At the end of March 2023, one trial
  was open, and four trials were in set up: all of these trials are only able to
  open due to the Hub so represent new opportunities for patients.
- The workforce for the Hub is moving forward with key roles already in post including the Senior Research Nurse and Trial Coordinator. Adverts for other

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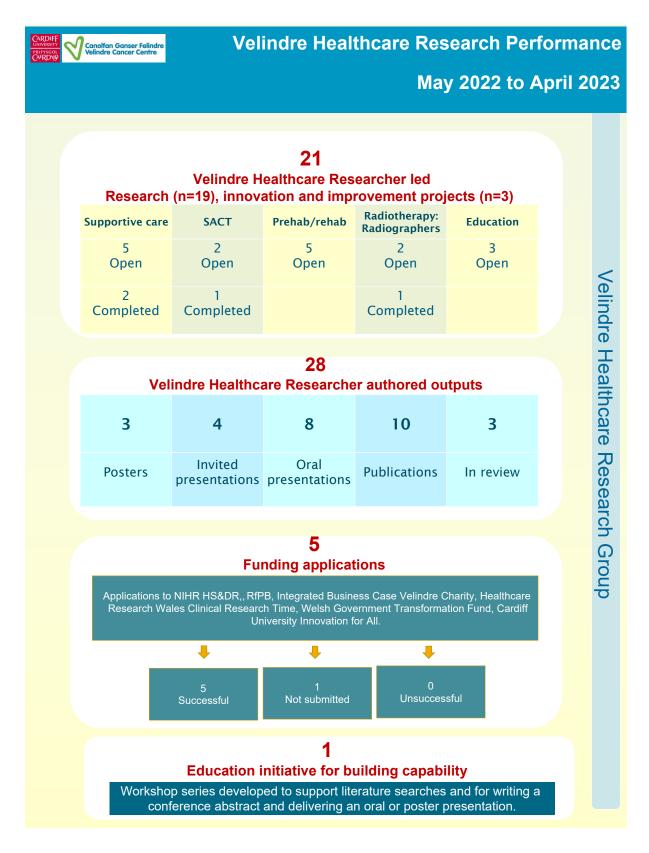
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- important roles will be opening soon including 2 x Research Nurses, 4 x Clinical Research Fellows and 1 x Clinical Academic.
- Site for the CCRH is still under discussion with UHW: the plan will be to develop an Outline Business Case, currently Cardiff and Vale is scoping out space options.
- Funds have been secured from Velindre Charitable Funds to commission
  external experts to develop a Strategic Investment Case that will holistically
  address how the Hub will be financially sustainable for the future. Moorhouse
  Consulting has been commissioned to lead this initiative.
- A Senior CCRH Operational Team is established that has oversight of the operational delivery of high and intermediate Early Phase and ATMP trials. This multi-professional team includes Haem-Onc and Solid tumour representatives and have an agreed work plan to develop operational policies and supporting documentation.
- The draft Heads of Terms are being finalised and will set out the governance principles between the organisations. This piece of work has been carried out between the R&D teams in VUNHST and the Joint Research Office CU and CVUHB. We are awaiting feedback from Cardiff University and CVUHB. The next step is a more detailed Memorandum of Understanding (MOU) which would cover all R&D activities between the three organisations.
- A branding agency are designing a logo and branding that will give the Hub a strong identity to reflect a partnership that the people of Wales can be proud of.
- The shared cancer research priorities have now been agreed by all three partners. These priorities act as the building blocks of the Hub, providing a clear direction when applying for grants and developing further partnerships:
  - 1. Attract, Train and Retain a diversity of clinical scientists to embed within and enhance the translational activities of cancer research labs across Cardiff.
    - Action: Develop and instigate an agreed clinical academic training pathway with mentorship, excellence and sustainability at its core.
  - 2. Create a Multidisciplinary Think Tank to optimise grant capture, including large scale centre bids.
    - <u>Action</u>: Employ Grant Officer(s) to coordinate and develop a range of funding bids, increasing collaboration across industry, government and charities.
  - 3. Harmonise Regulations to facilitate a "can-do" research culture which maximises research activity and outputs.
    - Action: Create and manage a harmonised biorepository to modernise patient consent and to enable sample and data sharing.

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## 2 Nursing & Interdisciplinary Research



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#### 2.1 Velindre Health Care Research

#### 2.1.1 Work in progress

- Dissemination of the new Healthcare Research Wales (HCRW) education and training offer for clinical staff.
- In house workshops about writing and presenting a conference abstract, led by Lenira Semedo, Velindre Healthcare Research Associate.
- Bernadette Coles and the Velindre Library Team support for Velindre healthcare staff literature reviews
- Jane Hopkinson and Lenira Semedo to lead a 'how to research' workshop at the Velindre University NHS Trust Celebration of Nursing 2023 at the All Nations Centre, Cardiff, on 12 May 2023.
- Jane Hopkinson has joined CARIN a UK network for building nurse and allied health professional clinical-academic research capacity. This gives access to benchmarking data.
- Sue Tranker, Chief Nursing Officer Wales, is in support of establishing a clinical-academic career pathway and research competencies and standards for advanced practitioners and consultant nurses in Wales. An Assistant Director is sought to act on behalf of Nurse Execs Wales in progressing clinical-academic careers with Velindre offering to take on this role.
- Velindre healthcare clinical academic career pathway, which will align with a research competency framework and career progression with all VUNHST Advanced Practitioners research active as Principal Investigators (PIs) or Chief Investigators (Cis). It will empower Advanced Practitioners to work to the top of their license and enable transformational leadership. The successful Velindre Integrated Business Care will support research training that spans Velindre First into Research (MSc empirical project), Velindre Healthcare Clinical Academic Apprentice (PhD training in subject and methodological expertise), and Velindre Healthcare Clinical Academic (Post-doc researcher generating and implementing new knowledge for practice). The award scheme will have a nurse or therapies professorial lead.

#### 2.1.2 Next steps for building Velindre healthcare research capacity:

The Velindre Futures Cancer Research and Innovation Strategy team is meeting with Velindre's Professor of Nursing and Interdisciplinary Research to agree the workplan for delivery of the Velindre Healthcare Cancer Research Fellowship Scheme and to set out key performance metrics to monitor progress.

The aim is to develop a plan that will increase the number of Velindre nurses and therapists who are Chief Investigators enabling a step change improvement in the quality and quantity of multi-disciplinary and multi-partner innovation to achieve our Trust's purpose to improve lives.

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#### 2.2 Research and Innovation Survey

A survey for nurses, therapists, and healthcare scientists, which was sent out across the Trust, to establish baseline information regarding the understanding of Research and Innovation, involvement in Research and Innovation, educational and training needs to become involved in Research and Innovation.

The departments where staff who responded worked is per below table. Not every respondent declared their department of work.

Department	Number
Nursing	5
Therapies	6
Radiographer	2
Administrative	1
ANP	2
Clinical Scientist	4
Manager	1

The survey was sent out via the Trust comms newsletter, for completion electronically. Support in producing the survey in electronic format was provided by the Innovation Project Manager. There was also a targeted issue of the electronic survey employed by the Research Nurse to clinical leads.

The initial response was poor, with only around 20 responders. Discussions held with senior nurses who indicated that paper format would result in a better response. Again, these paper copies were targeted as had been requested. This only increased the response rate to a total of 31.

The results however give an insight into the projects taking place, what education and training is needed to encourage future involvement.

- The most motivated to respond appear to be band 6 & 7.
- 71% of respondents already taking a higher degree therefore more aware of research
- 78% felt they had a good understanding of R&I
- When asked if Velindre prioritised R&I, 55% said Velindre was good at that, and 45% said not so good to poor.
- In terms of educational needs, 62% wanted training in writing a grant application, 62% wanted training in publication, 55% wanted to learn how to navigate ethics application, and 51% wanted to learn about R&D application, how to write up a research project and how to write abstracts.

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The full survey results can be seen in sections 12. Workforce Innovation & Research Survey.

#### 2.2.1 Education and Training

Based on initial face to face discussions with staff, around their educational needs, some training sessions have been delivered via the library service and other sessions are planned for delivery by the Research Associate.

Training information boards have also been set up for nurses and AHP's based on Rhosyn day unit, and Chemotherapy Inpatient Unit (CIU). These boards include contact details, training and funding opportunities, events, and new publications. There is also information re internal processes and how to access for the set-up of a research study. They are regularly updated by the Research Nurse.

The facilitation of the library training sessions included the discussion of content and linking with the nurse education department to identify most appropriate times to deliver and advertise the sessions. The first sessions took place August 2022. They included:

- An introduction to Library Resources.
- Defining your Research Question.
- Designing your Research Strategy.
- Introduction to Critical Appraisal.
- Practical Critical Appraisal.
- Specific Resource Training.

Training session to be delivered April 2023 by Research Associate include

- Introduction to Abstract Writing.
- Writing and Reviewing Abstracts.
- Oral and Poster Presentations.

Much of the content of these sessions is echoed in the survey as required training. It does however need to go further, with more in-depth information about Research and Development, and Ethics submissions. Discussions are underway in relation to the delivery of these requested sessions.

### 3 Performance Indicators

### 3.1 Summary of performance indicators

Overall, there has been marked improvement in the Trust run number of studies that have been RAG rated "GREEN" for the Health and Care Research Wales (HCRW) key indicators:

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- OPEN studies Percentage of studies recruiting to time and to target at NHS organisations in Wales with open studies being up 21% for non-commercial studies and up 11% for commercial studies
- CLOSED studies Percentage of studies recruiting to target at NHS organisations in Wales with closed studies being up 37% for non-commercial studies; up 21% for commercial studies.

The HCRW key indicators for Velindre University NHS Trust are shown in the tables that follow, where:

- R = Red, Recruitment less than 70% of expected (based on site target and time elapsed).
- A = Amber, Recruitment between 70% and 100%.
- G = Green, Recruitment greater than 100% of expected.
- W = White, Non-recruiting studies i.e., those active studies that do not intend recruit participants. Non-recruiting studies are identified as:
  - The 'Site Recruitment Target' is set as zero.
  - The site is a non-recruiting site (i.e., the 'Location Type' is set as 'Unknown' or 'Shared-care site').
  - The Site Status is set as 'Open No Recruitment Activity'.
  - The 'Recruitment Activity Upload Method' is set as 'N/A', meaning that the way participants join the study does not meet the definition of recruitment (i.e., participant provides informed consent and is counted towards the sample size of the study).

The Trust R&D Office have met with the HCRW Performance Team to discuss:

- Datasets for HCRW Key Indicators and contribute to how these can be best presented to better represent Velindre's unique position in the research infrastructure in Wales.
- How the narrative entered in the Local Portfolio Management System can give context and be better utiliised in presenting these measures.

Further work on the above points is underway.

The Trust R&D Office, with oversight from the RD&I Operational Management Group (OMG) regularly:

- Interrogates the Trust's study portfolio to determine the potential barriers to delivers and develop mitigation strategies to overcome these barriers.
- Reviews all studies to identify underperformance and target these studies for action, developing mitigating strategies in collaboration with the Sponsors.

The following tables describe the Health and Care Research Wales (HCRW) key indicators and local performance measures used to manage the Trust's research portfolio:

HCRW key indicator: Percentage of Health and Care Research Wales
 Portfolio studies recruiting to time and to target at NHS organisations in Wales
 for open studies.

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- HCRW key indicator: Percentage of Commercially sponsored studies recruiting to time and to target at NHS organisations in Wales for open studies.
- HCRW key indicator: Percentage of Health and Care Research Wales
   Portfolio studies recruiting to time and to target at NHS organisations in Wales
   for open studies for closed studies.
- HCRW key indicator: Percentage of Commercially sponsored studies recruiting to time and to target at NHS organisations in Wales for open studies for closed studies.
- Local performance measure: Time taken from receipt of Local Information Pack (LIP) to recruitment of first participant into Health and Care Research Wales non-commercial Portfolio Studies.
- Local performance measure: Time taken from receipt of Local Information Pack (LIP) to recruitment of first participant into Health and Care Research Wales commercially sponsored Studies.
- Local performance measure: Percentage of non-recruiting Health and Care Research Wales non-commercial Portfolio studies within NHS organisations (Velindre University NHS Trust)
- Local performance measure: Percentage of non-recruiting Health and Care Research Wales Portfolio commercially sponsored studies within NHS organisations (Velindre University NHS Trust)
- Local performance measure: Number of studies opened (Velindre University NHS Trust)
- Local performance measure: Number of participants recruited into studies (Velindre University NHS Trust)

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### 3.2 Health & Care Research Wales indicators for Velindre University NHS Trust

### 3.2.1 C3 OPEN: Percentage of Health and Care Research Wales non-commercial Portfolio studies recruiting to target (VUNHST)

Metric:		ercentage of Health and Care Research Wales ies recruiting to time and to target at NHS in Wales.			Target/Measure:			100%	0% HCRW		YES	
How is metric measured:		Health an measure Open stude  Open stude  Calculation  RAG ration	d Care Research Waagainst this key indicagainst this key indicagai	ator. sing a RAG ratin s 30% behind th nt is up to and in nt is equal to or - % time elapsed	ng system on the work of the w	as follows: elapsed (e.g., RA 0% behind % tim than % time elap	AG Rating the elapsed posed (e.g.,	= -30% or less) (e.g., RAG Ratii	ng = < -1% 0%)		(ODP) to	
	Overa			Quarte				Quarter 3		Quarter 4		
	Red	63%		Red	61%	Red	42%	Red	NR <sup>1</sup>	Red	34%	
Previous	Amber	14%	Current	Amber	10%	Amber	14%	Amber	NR <sup>1</sup>	Amber	8%	
Financial	Green	23%	Financial	Green	29%	Green	23%	Green	NR <sup>1</sup>	Green	44%	
Year	Black	-	Year	Black	-	Black	-	Black	NR <sup>1</sup>	Black	-	
	Silver	-		Silver	-	Silver	-	Silver	NR¹	Silver	-	
	Purple	-		Purple	-	Purple	-	Purple	NR <sup>1</sup>	Purple	-	
	White	-		White	-	White	21%	White	NR <sup>1</sup>	White	14%	
	Previously Identified Issues						Previous Action Plan(s) to Improve Target Date Status					
studies (R = 17 studies, A = The Health and Ca	The Health and Care Research Wales (HCRW) 2022/23 dataset included 50 studies (R = 17 studies, A = 4 studies, G = 22 studies, W = 7 studies).  The Health and Care Research Wales performance dashboard does not allow the data to be filtered by cancer research studies only. This means that the data					net with HCRW, fasets for HCRW I e can be best prondre's unique pos /ales.	Key Indica esented to	tors and contributions to the terminal to the	ite to how	Ongoing		

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<sup>&</sup>lt;sup>1</sup> NR = Not reported. The data was not reported in Q3 FY2022/23 due to concerns with the completeness and accuracy of the source data.

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presented in the Health and Care Research Wales Performance Dashboard does not allow a direct comparison of cancer research studies between VUNHST and other NHS Wales Organisations.  The studies hosted by VUNHST are usually small number recruitment targets of long time periods. It is possible for a VUNHST hosted study to be RAG rated red for a number of years or fluctuate in its RAG rating.	How the narrative entered in the Local Portfolio     Management System can give context and be better     utiliised in presenting these measures.  HCRW have made some changes to the reporting of this metric, including additional ratings. Further work is underway to improve how the indicators can better represent Velindre's unique position in the research infrastructure in Wales	Ongoing	
Discussion of Issues	Action Plan(s) to Improve Performance	Target Date	
	The Trust R&D Office, with oversight from the RD&I Operational Management Group (OMG) regularly:  Interrogates the Trust's study portfolio to determine the potential barriers to delivers and develop mitigation strategies to overcome these barriers.  Reviews all studies to identify underperformance and target these studies for action, developing mitigating strategies in collaboration with the Sponsors.	Ongoing	

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# 3.2.2 C4 OPEN: Percentage of Health and Care Research Wales Portfolio Commercially sponsored studies recruiting to target (VUNHST)

Metric:		rcentage of Commercially sponsored studies me and to target at NHS organisations in			Target/Measure:			100%	In	Performance dicator:	YES	
How is metric measured:		measure Open stud  I  Calculation  RAG ratio	d Care Research Waagainst this key indicagainst the secondary of the secondary is a secondary in the secondary in the secondary is a secondary in this key indicagainst thin key indicagainst this key indicagainst thin key	ator. sing a RAG ratir s 30% behind th nt is up to and in nt is equal to or - % time elapsed	g system e % time oncluding 3 is greater	as follows: elapsed (e.g., RA 0% behind % tim than % time elap	AG Rating ne elapsed osed (e.g.,	= -30% or less) (e.g., RAG Ratir	ng = < -1% 0%)		(ODP) to	
	Overa	all		Quarte	r 1 Quarter 2		2 Quarto		er 3 Qu		arter 4	
	Red	79%		Red	77%	Red	63%	Red	NR <sup>2</sup>	Red	47%	
Previous	Amber	-	Current	Amber	6%	Amber	11%	Amber	NR <sup>2</sup>	Amber	8%	
Financial	Green	21%	Financial	Green	16%	Green	11%	Green	NR <sup>2</sup>	Green	32%	
Year	Black	-	Year	Black	-	Black	-	Black	NR <sup>2</sup>	Black	-	
	Sliver	-		Sliver	-	Sliver	-	Sliver	NR <sup>2</sup>	Sliver	-	
	Purple	-		Purple	-	Purple	-	Purple	NR <sup>2</sup>	Purple	-	
	White	-		White	-	White	14%	White	NR <sup>2</sup>	White	13%	
	Previously Identified Issues						Previous Action Plan(s) to Improve Target Date Status					
studies (R = 18 studies, A = The Health and Ca data to be filtered b	The Health and Care Research Wales (HCRW) 2022/23 dataset included 38 studies (R = 18 studies, A = 3 studies, G = 12 studies, W = 5 studies).  The Health and Care Research Wales performance dashboard does not allow the data to be filtered by cancer research studies only. This means that the data presented in the Health and Care Research Wales Performance Dashboard does						Key Indica esented to	rk is underway to tors and contribu better represent e research infras	ite to how	Ongoing		

 $<sup>^2</sup>$  NR = Not reported. The data was not reported in Q3 FY2022/23 due to concerns with the completeness and accuracy of the source data.

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not allow a direct comparison of cancer research studies between VUNHST and other NHS Wales Organisations.  The studies hosted by VUNHST are usually small number recruitment targets of long time periods. It is possible for a VUNHST hosted study to be RAG rated red for a number of years or fluctuate in its RAG rating.	How the narrative entered in the Local Portfolio     Management System can give context and be better     utiliised in presenting these measures.  HCRW have made some changes to the reporting of this metric, including additional ratings. Further work is underway to improve how the indicators can better represent Velindre's unique position in the research infrastructure in Wales	Ongoing
Discussion of Issues	Action Plan(s) to Improve Performance	Target Date
	The Trust R&D Office, with oversight from the RD&I Operational Management Group (OMG) regularly:  Interrogates the Trust's study portfolio to determine the potential barriers to delivers and develop mitigation strategies to overcome these barriers.  Reviews all studies to identify underperformance and target these studies for action, developing mitigating strategies in collaboration with the Sponsors.	Ongoing

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# 3.2.3 C3 CLOSED: Percentage of Health and Care Research Wales non-commercial Portfolio studies recruiting to target (VUNHST)

(۷0)1110											1
C3 CLOSED Percentage of Health and Care Research Wales Portfolio studies recruiting to target at NHS organisations in Wales.						larget/Measure: 100%				Performance dicator:	YES
How is metric	measured:	measure  Closed st  I  Closed st  Closed st  RAG ratio	$\mathbf{ng} = \%$ recruitment	eator. using a RAG rat s < 100%			agement S	ystem (LPMS) a	ind the Ope	n Data Platform	(ODP) to
Previous	Overa	ıll	Current	Quarte	1 Quarter 2		Quarter 3		Quarter 4		
Financial	Red	77%	Financial	Red	-	Red	50%	Red	NR <sup>3</sup>	Red	40%
Year	Green	23%	Year	Green	100%	Green	50%	Green	NR <sup>3</sup>	Green	60%
	White	-		White	-	White	-	White	NR <sup>3</sup>	White	-
	Previous	ly Identifie	d Issues		Previous Action Plan(s) to Improve Targe					Target Date	Status
<ul> <li>The Health and Care Research Wales 2022/23 dataset included 10 studies (R = 4 studies, G = 6 studies).</li> <li>A review of the 4 "RED" rated studies showed that the reasons for not achieving the target were:</li> <li>1 study, recruitment nationally was more difficult due to changes in treatment. VUNHST was one of the top recruiters for the study.</li> <li>1 study, rare cancer patient cohort of small numbers. Recruitment to study was more difficult than expected.</li> <li>1 study, sponsor organisation went into administration and recruitment to the study ceased two years earlier than planned.</li> </ul>						net with HCRW, asets for HCRW e can be best produced or conduced o	Key Indica resented to sition in the ntered in the n can give	tors and contrib better represen e research infras e Local Portfolic context and be	ute to how at structure	Ongoing	

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<sup>&</sup>lt;sup>3</sup> NR = Not reported. The data was not reported in Q3 FY2022/23 due to concerns with the completeness and accuracy of the source data.

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1 study, sponsor organisation closed the study to recruitment early having met national recruitment target early.		
Discussion of Issues	Action Plan(s) to Improve Performance	Target Date
The HCRW Performance Dashboard does not clearly reflect where the stopping of recruitment to a research study is outside the control of VUNHST	Continue work with HCRW to improve how narrative in the Local Portfolio Management System can give context and be better utilised in presenting these measures	Ongoing

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# 3.2.4 C4 CLOSED: Percentage of Health and Care Research Wales Portfolio Commercially sponsored studies recruiting to target (VUNHST)

Metric:			of Commercially spo organisations in Wa		Targ	et/Measure:		100%		Performance dicator:	YES	
How is metric	measured:	Closed st  Closed st  Closed st  Closed st  RAG ratio	$\mathbf{ng} = \%$ recruitment	ator. using a RAG rati s < 100% nt ≥ 100%			gement S	ystem (LPMS) aı	nd the Ope	n Data Platform (	ODP to	
Previous	Overa	II	Current	Quarte	1 Quarter		r 2 Quarter		er 3 Qua		rter 4	
Financial	Red	83%	Financial	Red	-	Red	100%	Red	NR <sup>4</sup>	Red	50%	
Year	Green	17%	Year	Green	-	Green	0%	Green	NR <sup>4</sup>	Green	38%	
	White	-		White	-	White	-	White	NR <sup>4</sup>	White	13%	
	Previous	ly Identifie	d Issues			Previous Ac	tion Plan(	s) to Improve		Target Date	Status	
(R = 4 studies, G = A review of the 4 "F the target were:	3 studies, W = 1 RED" rated studies  ittment was more hely 2 patients to be ittment was more cancer patient co- icult than expecte cancer patient co-	study). es showed to difficult that de entered difficult that short of smaled. Short of smaled.		ot achieving T screened 13 nent to study F planned to	Data thes Velii in W     How Mar	met with HCRW, asets for HCRW I se can be best prondre's unique post/ales. If the narrative en agement System sed in presenting	Key Indica esented to sition in the tered in the can give	tors and contributed better represented research infrasted Local Portfolio context and be be	ite to how tructure	Ongoing		

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<sup>&</sup>lt;sup>4</sup> NR = Not reported. The data was not reported in Q3 FY2022/23 due to concerns with the completeness and accuracy of the source data.

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years earlier having met their global total of 900 patients, despite being a rare cancer.			
Discussion of Issues	Action Plan(s) to Improve Performance	Target D	ate
The HCRW Performance Dashboard does not clearly reflect where the stopping of recruitment to a research study is outside the control of VUNHST	Continue work with HCRW to improve how narrative in the Local Portfolio Management System can give context and be better utilised in presenting these measures	Ongoing	

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### 3.3 Local Performance Measures for Velindre University NHS Trust

3.3.1 C1: Time taken from receipt of Local Information Pack (LIP) to recruitment of first participant into Health and Care Research Wales non-commercial Portfolio studies (VUNHST)

Metric:		of first patie	ipt of Local Information		Targ	et/Measure:	Media	n № of days		Performance dicator:	NO
Health and Care Research Wales use data f measure against this key indicator.  Calendar days have been adopted to measure. The start date of this measure is the date the date for this measure is the date the first par Note: This measure only includes studies what achieved within 70 calendars days of site actions.					this time cocal Inforcipant was	period consistent mation Pack (LIP recruited to the s	tly across P) is shared study at th	the UK. d with the NHS o e NHS organisat	rganisation ion.	by the Sponsor.	The end
Previous	Overa	=	Current	Quarte	1 Quarter		Quarte		r 3	Quarter 4	
Financial Year	Median days	203	Financial Year	Median days	Blank	Median days	Blank	Median days	NR <sup>5</sup>	Median days	61
	Previous	ly Identifie	d Issues		Previous Action Plan(s) to Improve Target Date State						
This dataset only in	The Health and Care Research Wales 2022/23 dataset includes 1 study.  This dataset only includes studies where the planned target is more than one participant per month (unless this has been achieved within 70 calendars days of site activation)					met with HCRW, fasets for HCRW I se can be best prondre's unique pos Indre's unique pos Vales.	Key Indica esented to	tors and contributed better represent	ite to how	Ongoing	
	Discu	ssion of Is	ssues			Action Plan(s)		Target Date			
participant per mon site activation). The Dashboard indicate	Discussion of Issues  This dataset only includes studies where the planned target is more than one participant per month (unless this has been achieved within 70 calendars days of site activation). The "Blank" presented for Q1 and Q2 in the HCRW Performance Dashboard indicates that VUNHST did not have any studies that fit the criteria for inclusion in the HCRW dataset				Work de is under	scribed "Previous way	s Action P	an(s) to Improve	" above	Ongoing	

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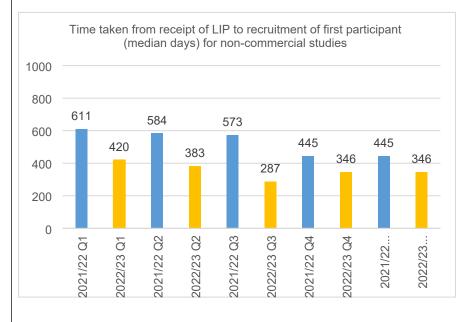
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<sup>&</sup>lt;sup>5</sup> NR = Not reported. The data was not reported in Q3 FY2022/23 due to concerns with the completeness and accuracy of the source data.

## The following data is taken from the VUNHST study portfolio for non-commercial studies in financial year 2022/23.

The data for time take from receipt of Local Information Pack to recruitment of first participants (median days) for all non-commercial studies is as follows:

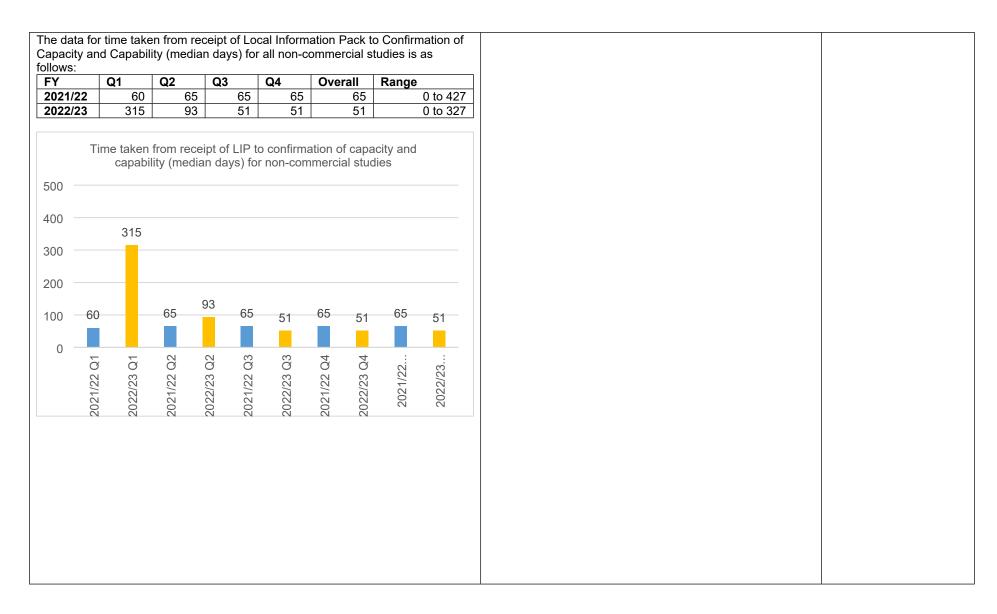
FY	Q1	Q2	Q3	Q4	Overall	Range
2021/22	611	584	573	445	445	0 to 910
2022/23	420	383	287	346	346	61 to 894



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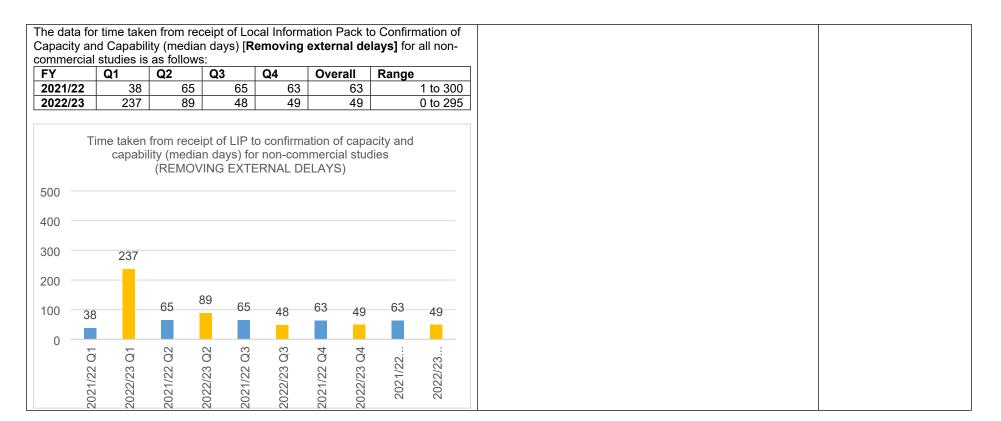
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# 3.3.2 C2: Time taken from receipt of Local Information Pack (LIP) to recruitment of first participant into Health and Care Research Wales Portfolio commercially sponsored studies (VUNHST)

Metric:			ipt of Local Information		Targ	et/Measure:	Media	ın № of days	HCRW In	NO	
How is metric	measured:	measure Calendar The start date for th	ad Care Research Wa against this key indic days have been ado date of this measure his measure is the da s measure only inclu- within 70 calendars of	ator.  pted to measure  is the date the I  te the first partic  des studies whe	e this time _ocal Infor cipant was	period consisten mation Pack (LIF recruited to the	ntly across P) is share study at th	the UK. d with the NHS c e NHS organisa	organisatior tion.	n by the Sponsor.	The end
Previous	Overa			Quarte	r 1	r 1 Quarter :		· 2 Quarte		Quarter 4	
Financial Year	Median days	Blank	Financial Year	Median days	Blank	Median days	Blank	Median days	NR <sup>6</sup>	Median days	57
	Previous	ly Identifie	d Issues			Previous Ac	Target Date	Status			
This dataset only i	ncludes studies w	here the pl	dataset includes 2 s anned target is more nieved within 70 calei	than one	Data these Veli	met with HCRW, asets for HCRW se can be best pr ndre's unique po Vales.	Key Indicates	ntors and contribution better represen	ute to how t	Ongoing	
	Discu	ssion of Is	ssues			Action Plan(s)	to Impro	ve Performance		Target [	Date
participant per mosite activation). Th	nth (unless this ha e "Blank" present es that VUNHST	as been ach ed for Q1 a	anned target is more nieved within 70 caler nd Q2 in the HCRW e any studies that fit t	ndars days of Performance	Work de is under	scribed "Previou way	s Action P	lan(s) to Improve	e" above	Ongoing	

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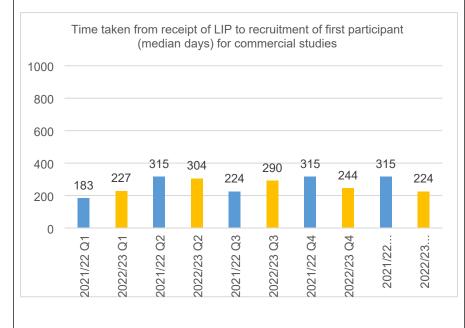
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<sup>&</sup>lt;sup>6</sup> NR = Not reported. The data was not reported in Q3 FY2022/23 due to concerns with the completeness and accuracy of the source data.

The following data is taken from the VUNHST study portfolio for commercial studies in financial year 2022/23.

The data for time take from receipt of Local Information Pack to recruitment of first participants (median days) for all commercial studies is as follows:

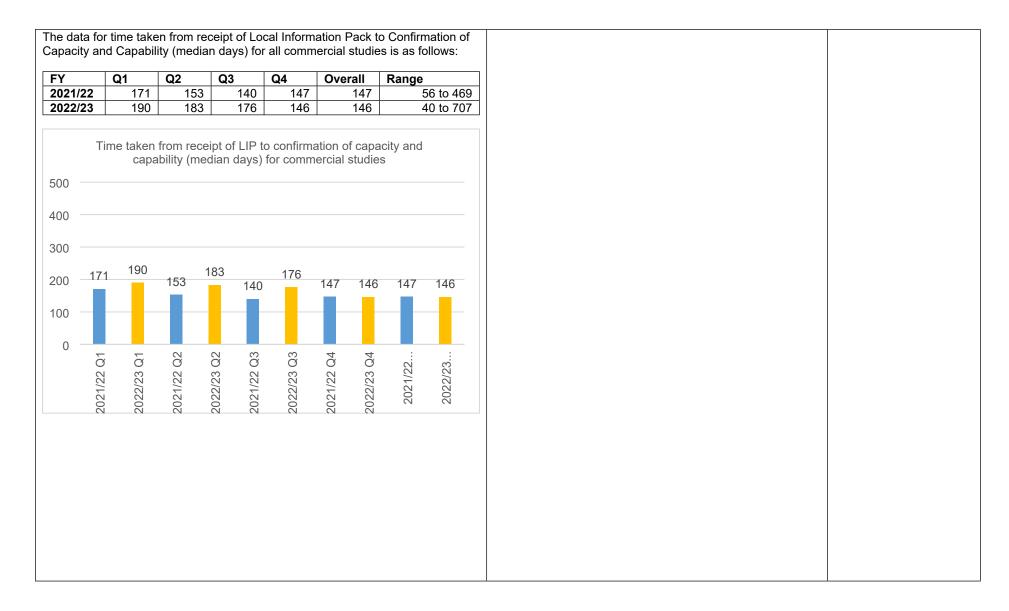
FY	Q1	Q2	Q3	Q4	Overall	Range
2021/22	183	315	224	315	315	81 to 748
2022/23	227	304	290	244	224	43 to 933



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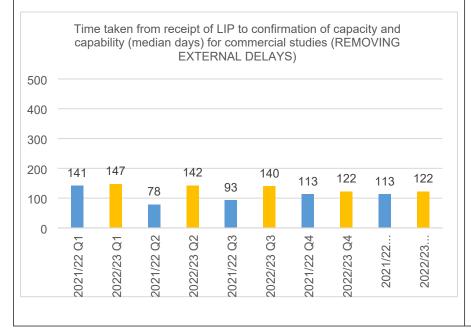
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The data for time take	n from red	ceipt of Lo	cal Informa	ation Pack t	o Confirmation of
Capacity and Capabil	ity (mediar	n days) [ <b>R</b>	emoving	external de	lays] for all
commercial studies is	as follows	3:			

FY	Q1	Q2	Q3	Q4	Overall	Range
2021/22	141	78	93	113	113	13 to 284
2022/23	147	142	140	122	122	18 to 179



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# 3.3.3 C5: Percentage of non-recruiting Health and Care Research Wales non-commercial Portfolio studies within NHS organisations (VUNHST)

organisa	LIONS (VUINT	101)									
Metric:			cruiting Health and Ca ithin NHS organisation		Target/Measure: 0°		0%	HCRW Performance Indicator:		NO	
How is metric	measured:	measure This key i but have	d Care Research Wa against this key indica ndicator measures all closed to recruitment nt period.	ator. I Health and Ca	re Researd	ch Wales non-co	ommercial F	Portfolio studies	that have b	een open to recr	uitment
Previous	Overa	ıll	Current Financial	Quarte	r 1	Quarter	· 2	2 Quarter		Quarter 4	
Financial Year %		8%	Year	%	0%	%	0%	%	NR	%	10%
	Previous	ly Identifie	d Issues		Previous Action Plan(s) to Improve Target Date						
A 10% Non-recruitir	ng Health and Ca where the Spor	are Resear	dataset included 10 s ch Wales Portfolio stu sation closed the stud ent target early.	ıdies	<ul><li>Data thes Velir in W</li><li>Whe</li></ul>	net with HCRW, asets for HCRW e can be best prodre's unique po ales ere study recruitnethis information	Key Indicates esented to sition in the nent is outs	tors and contributed better represent the research infrastiged the control \	te to how tetructure	Ongoing	
	Discu	ıssion of Is	ssues		Action Plan(s) to Improve Performance					Target E	Date
			clearly reflect where t e control of VUNHST.		Work des	scribed "Previou vay.	s Action Pl	an(s) to Improve	above		

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# 3.3.4 C6: Percentage of non-recruiting Health and Care Research Wales Portfolio commercially sponsored studies within NHS organisations (VUNHST)

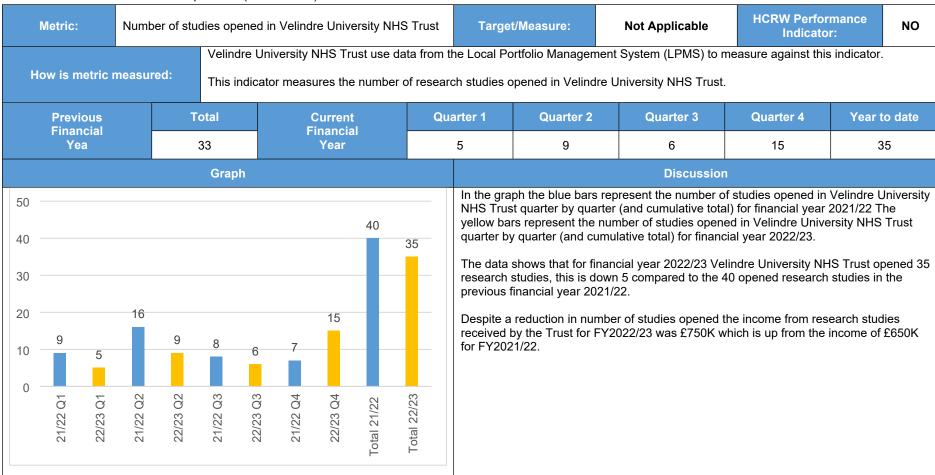
Metric:			cruiting Commercially isations in Wales	Target	:/Measure:	Median № of days		HCRW Performance Indicator:		NO	
How is metric	measured:	measure a	d Care Research Wa against this key indica indicator measures all ting period and have r	ator. I Commercially	sponsored s	studies that hav	/e been op	en to recruitmen	it but have	closed to recruitn	
Previous	Overa	II	Current	Quarte	r 1	Quarter	r <b>2</b>	Quarte	r 3	Quarte	r 4
Financial Year	%	50%	Financial 50% Year		Blank	%	33%	%	NR	%	43%
Previously Identified Issues						Previous Ac		Target Date	Status		
A 43% Non-recruiti represented 3 stud	ng Health and C ies where: ruitment was more cancer patient of ficult than expect cancer patient of ents prior to closu	are Researchere difficult that cohort of smalled. cohort of smalled cohort of smaller in 2026.	dataset included 7 stack Wales Portfolio student expected. Hall numbers. Recruitmentall numbers. VUNHS Sponsor closed the stack of 900 patients, desp	nent to study  T planned to study three	<ul> <li>Datas these Velino in Wa</li> <li>Where</li> </ul>	sets for HCRW can be best pr dre's unique po lles e study recruitn	Key Indicates esented to sition in the ment is outs	rk is underway to tors and contribu better represent e research infras side the control \ d in this measure	ute to how t structure	Ongoing	
Discussion of Issues					Action Plan(s) to Improve Performance					Target Date	

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## 3.3.5 Number of studies opened (VUNHST)

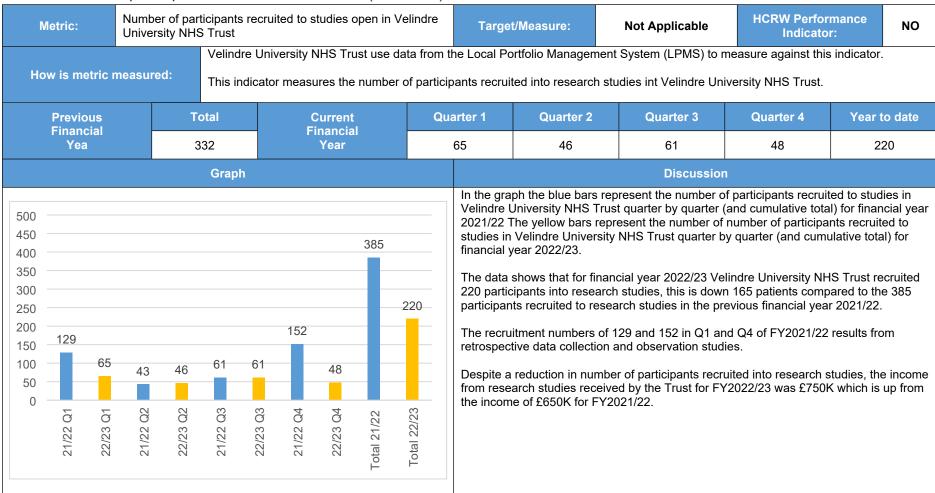


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## 3.3.6 Number of participants recruited into studies (VUNHST)



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# 4 Velindre Cancer Centre hosted research – key achievements

### 4.1 FAKTION

Study Title: A phase 1b/2 randomised placebo-controlled trial of fulvestrant +/-AZD5363 in postmenopausaul women with advanced breast cancer previously treated with a third generation aromatase inhibitor.



Prof Rob Jones

Patients with incurable breast cancer could potentially benefit from new Welsh-led research, latest evidence suggests.

The research, carried out by Velindre University NHS
Trust, in partnership with AstraZeneca and Cardiff
University over 10 years was presented at the world
renowned American Society of Clinical Oncology
conference on 04 June 2022 in Chicago and published
simultaneously in the prestigious Lancet Oncology journal.

The latest research builds on the 2019 FAKTION trial based on the use of capivasertib, an investigational breast cancer drug developed by AstraZeneca that blocks the activity of a protein called AKT that has been shown to contribute to resistance to hormone therapy. The 2019 research found that, by combining capivasertib with a standard hormonal treatment, in this instance fulvestrant, patients may expect their cancer to be controlled for more than 10 months rather than under five months with the current standard care.

New evidence from the FAKTION trial looks primarily at how long patients can expect to live for and if the genetic makeup of their cancer influences this.

Over half of patients in the trial were identified as having a specific mutation in their cancer specimen which activated the AKT pathway. Patients in this group who were treated with the combination of capivasertib and fulvestrant lived for around 39 months compared to 20 months if given fulvestrant and a placebo.

Professor Rob Jones, the Assistant Medical Director for Research at Velindre and Professor of Medical Oncology at Cardiff University, said: "These new data are very exciting. Not only have we shown that capivasertib has the potential to give patients a very significant extension in their life-span, but we may also be able to select out those patients who are most likely to benefit from the treatment by carrying out genetic tests on their cancer tissue. We are now very keen to see if this is confirmed in a larger Phase 3 trial which has already completed recruitment."

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Professor Kieran Walshe, Director of Health and Care Research Wales said: "It's encouraging to see these further results from the FAKTION study, which build on the previous findings and offer potential hope for millions of breast cancer patients. This partnership is a great example of the collaborative research taking place in Wales, which is aiming to make a real difference to people's lives."

The preliminary data from FAKTION which was reported three years ago triggered a larger Phase 3 trial called CAPItello 291 which aims to evaluate the potential benefit of capivasertib in combination with fulvestrant to prolong survival in ER+/HER2– advanced breast cancer patients.

### 4.2 SYMPLIFY

Study Title: Observational study to assess a multi-cancer early detection test in individuals referred with signs and symptoms of cancer

The SYMPLIFY study team collected the award for *Innovation in early detection and diagnosis* in the Pioneering Innovation category at the Moondance Cancer Awards 2022 on 16 June 2022.



**L-R**: Jason Mohammad, Christopher Cotterill-Jones, Chris Norman, Sarah Townsend and Judi Rhys

Judi Rhys, CEO of
Tenovus Cancer Care
presented the award and
said "This was a world
class shortlist, with 6
fantastic nominations for
us to consider but the
panel did feel like one
stood out ..."

Sarah Townsend, Health of Research & Development and Christopher Cotterill-Jones, Research Delivery Manager, along with a

colleague from Health and Care Research Wales, accepted the award on behalf of all who took part in the SYMPLIFY study.

Dr Nicola Williams, Director of Support and Delivery at Health and Care Research Wales said: "Congratulations to all the research staff in all health boards across Wales rolling out this study on an enormous scale, using the One Site Wales approach. SYMPLIFY is a brilliant example of how we can work together contributing to life-saving cancer research."

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Sarah also took part in a MediWales Connects 2022 parallel session on 29 June 2022 discussing the Trust's experience in using and adapting the "One Site Wales" approach for delivery of the SYMPLIFY study.

The session looked at how a One Wales approach to research delivery that has allowed sponsors, researchers, NHS staff and patients to collaborate to achieve research excellence with tangible patient benefit throughout the COVID-19 pandemic. The delivery model has since been adapted and applied beyond the pandemic context, for example in cancer diagnostics and it continues to provide an ambitious blueprint for research delivery that meets the UK vision and reaches patients and participants throughout Wales, with each panel member gave feedback on their experiences of using the One Wales approach.

#### 4.3 CHARIOT

STUDY TITLE: A Phase I does escalation safety study combining the ATR inhibitor VX-970 with chemoradiotherapy in oesophageal cancer using time to event continual reassessment method.

The sponsor nominated Dr Paul Shaw and his team for a special OCTO award. Awards are usually based on the organisation's core values of respect, integrity, collaboration, equality, and excellence.

The Sponsor provided the following reason for our nomination: "we have been so impressed with the team's dedication to the study. It's always a treat to work with a team that is so diligent and that has been evident

throughout the trial.

The data team got a particular mention because you consistently had the lowest number of outstanding CRFs and data queries, and you have always been the most responsive of the sites we had on board."

Dr Shaw's contribution to the CHARIOT trial had been noted as both a site Principal Investigator and an engaged member of the Trial Management Group. Dr Shaw's leadership has encouraged

Dr. Paul Shaw

Dr Paul Shaw

the site team to be highly engaged throughout and with everyone (clinical, research, pharmacy, and data teams) being responsive and communicative. The Sponsor's trial team at OCTO were delighted to be working with such a dedicated and hardworking team of individuals and thanked them for making running CHARIOT that much easier."

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### 4.4 ONCOVID

STUDY TITLE: OnCovid - Natural history and outcomes of cancer patients during COVID19 epidemic.

The Trust supported the OnCovid: natural history and outcomes of cancer patients during the COVID19 epidemic study. The overarching purpose of this retrospective, non-interventional study is to describe the features of COVID-19 infection in cancer patients, investigate its severity in this population and evaluate long-term outcomes.

The trial findings highlighted a consistent reduction of COVID-19 severity in patients with breast cancer during the Omicron outbreak in Europe. The study also demonstrated that even in this population, a complete severe acute respiratory syndrome coronavirus 2 vaccination course is a strong determinant of improved morbidity and mortality from COVID-19.

The Trust's Research Nurse Team Lead, Amanda Jackson, and Head of Research Development, Sarah Townsend, have been listed as authors in a paper published in the Lancet Oncology journal. Amanda Jackson has also been listed in author in a paper published in Journal of Clinical Oncology.

Velindre were also recognised as a contributing organisation in a meeting abstract at the 2022 ASCO Annual Meeting.

### 4.5 EMERALD

Study Title: Elacestrant Monotherapy vs Standard of Care for the Treatment of Patients with ER+/HER2- Advanced Breast Cancer Following CDK4/6 inhibitor Therapy: A Phase 3 Randomised, Open-Label, Active Controlled, Multicentre Trial

The U.S. Food and Drug Administration (FDA) has accepted the Menarini Group's New Drug Application (NDA) for elacestrant, an investigational selective estrogen receptor degrader (SERD), for patients with ER+/HER2- advanced or metastatic breast cancer.

The FDA has granted the application Priority Review and assigned a PDUFA date of February 17, 2023. The FDA grants Priority Review designation to medicines that it considers have the potential to provide significant improvements over current standard of care in the safety and effectiveness of the treatment, diagnosis, or prevention of serious conditions. The FDA granted Fast Track designation for elacestrant in 2018.

 Elacestrant, if approved, would be the first oral selective estrogen receptor degrader (SERD) to be available for patients suffering from 2L and 3L ER+/HER2- advanced or metastatic breast cancer

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 Submission supported by results from the pivotal Phase 3 EMERALD study of elacestrant showing statistically significant efficacy over current standard-of-care (SOC) medications for both the overall study population and patients whose tumors harbor an ESR1 mutation

Velindre University NHS Trust was the UK's top recruiter to the EMERALD Trial.

### 4.6 ATLANTIS

Study Title: An adaptive multi-arm phase II trial of maintenance targeted therapy after chemotherapy in metastatic urothelial cancer

Dr. Jim Barber, Consultant in Clinical Oncology (Urology) has contributed an article published in the Journal of Clinical Oncology titled: "A Randomized, Double-Blind, Biomarker-Selected, Phase II Clinical Trial of Maintenance Poly ADP-Ribose Polymerase Inhibition with Rucaparib Following Chemotherapy for Metastatic Urothelial Carcinoma." The publication is available online at: <a href="https://ascopubs.org/doi/pdf/10.1200/JCO.22.00405">https://ascopubs.org/doi/pdf/10.1200/JCO.22.00405</a>

The study was a randomised comparison within the ATLANTIS trial. The ATLANTIS trial is an adaptive, multicomparison, clinical trial platform. It tests multiple, biomarker-selected switch maintenance therapies for patients with metastatic urothelial cardinomas (mUC), and without disease progression after completing four to eight platinum-based chemotherapy cycles, in a series of parallel, randomized, double-blind, phase II comparisons.

Maintenance rucaparib, following platinum-based chemotherapy, extended progression free survival (PFS) in DNA repair Deficiency (DRD) biomarker-selected patients with mUC and was tolerable.

### 4.7 FOXTROT

Study Title: Fluoropyrimidine Oxaliplatin & Targeted Receptor pre-operative therapy for colon cancer. A randomised trial assessing whether preoperative chemotherapy and/or an anti-EGFR monoclonal antibody improve outcome in high-risk operable colon cancer.

The FOxTROT trial was funded by Cancer Research UK and led from the Universities of Birmingham and Leeds. The trial involved patients from 85 hospitals across Europe, with Velindre University NHS Trust contributing 25 participants.

The trial found that patients with early-stage colon cancer benefit from six weeks of chemotherapy before surgery, cutting the risk of cancer returning within two years by 28%.

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# Associate Professor at the Birmingham Clinical Trials Unit at the University of Birmingham, Dr Laura Magill, said:

"Up to 1 in 3 colon cancer patients can see their cancer come back after surgery. That figure is far too high, and we need new treatment strategies to stop colon cancer coming back. The standard approach has been to give chemotherapy after surgery to eradicate any cancer cells that might have spread before surgery. But our research shows that giving some of that chemotherapy before surgery increases the chances that all cancer cells will be killed.

A growing body of evidence is showing the value of pre-operative chemotherapy in several other cancers, and we believe that our results could transform how we approach colon cancer in the clinic."

The study's results were published in the Journal of Clinical Oncology's article, "Preoperative chemotherapy for operable colon cancer: mature results of an international randomised controlled trial". The publication is available online at: https://ascopubs.org/doi/full/10.1200/JCO.22.00046

#### 4.8 STAMPEDE

# Study Title: Systemic Therapy in Advancing or Metastatic Prostate Cancer: Evaluation of Drug Efficacy

The STAMPEDE trial closed to recruitment in March 2023 having run for eighteen years and recruiting 11,992 participants, with 452 patients from Velindre, making this the largest trial ever completed in advanced prostate cancer.

STAMPEDE revolutionised the way that trials can be done, having incorporated ten primary research questions into one platform trial infrastructure and the data collected leading to the publication of a considerable number of articles across multiple journals. The findings have changed the standard of care four times for men living with prostate cancer with both cancer and survival outcomes being improved beyond initial expectations back in 2005.

#### Chief Investigator Nick James said:

"It's been an honour and a pleasure to lead STAMPEDE from inception back in 2005 to final completion of recruitment today. Over the 18 years almost 12,000 men have taken part in the trial which has tested 10 different approaches to advanced prostate cancer and has led to multiple changes to the standard of care for men with the disease, extending typical survival times by many years. In addition, the design of the trial itself, a multi-arm platform which we have used to test all these different treatments is itself ground-breaking. Multi-arm platform trials have been used in a range of diseases including COVID as well as cancer. Linked to the trial is a tissue bank and an image bank collected from the biopsies and patient imaging. This is yielding invaluable insights into our understanding of

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the disease behaviour. This huge and unique resource will continue to improve our knowledge of the disease for many years. STAMPEDE will continue via a rebooted platform as STAMPEDE2, initially with three new comparisons"

## 4.9 First in the World and Europe

#### 4.9.1 IO102-IO103

Study Title: A Phase II Multi-Arm (basket) Trial Investigating the Safety and Efficacy of IO102-IO103 in Combination with Pembrolizumab, as First-line Treatment for Patients with Metastatic Non-Small Cell Lung Cancer (NSCLC), Squamous Cell Carcinoma of Head and Neck (SCCHN), or Metastatic Urothelial Bladder Cancer (mUBC)

This trial is investigating the efficacy of the drug IO102-IO103 in combination with pembrolizumab in the frontline treatment in each of the different metastatic solid tumour indications.

Velindre University NHS Trust was the first site worldwide to recruit a participant to the IO102-IO103-022 trial, which aims to investigate the efficacy of IO102-IO103 in combination with pembrolizumab in the frontline treatment in each of the different metastatic solid tumour indications.

The Trust is currently the top recruiter to this trial in the world.

#### 4.9.2 TROPION 03

Study Title: A Phase 3 Open-label, Randomised Study of Datopotamab Deruxtecan (Dato-DXd) With or Without Durvalumab Versus Investigator's Choice of Therapy in Patients With Stage I-III Triple-negative Breast Cancer Who Have Residual Invasive Disease in the Breast and/or Axillary Lymph Nodes at Surgical Resection Following Neoadjuvant Systemic Therapy

This trial is comparing datopotamab deruxtecan with chemotherapy for triple negative breast cancer patients without pathological complete response at the time of surgery following neoadjuvant therapy.

Velindre University NHS Trust was the first European site to randomise a patient into the study and were also the first site to open in the UK. Velindre is currently the top UK recruiter and 4th highest recruiter in the world.

## 4.10 Other news and study performance rankings

### 4.10.1 TROPION 02

Study Title: A Phase 3, Open-label, Randomised Study of Datopotamab Deruxtecan (Dato-DXd) Versus Investigator's Choice of Chemotherapy in Patients who are not

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# Candidates for PD-1/PD-L1 Inhibitor Therapy in First-line Locally Recurrent Inoperable or Metastatic Triple-negative Breast Cancer

This trial is comparing datopotamab deruxtecan with chemotherapy for triple negative breast cancer. It is open to people with triple negative breast cancer that:

- has come back in the same place and it cannot be removed by surgery
- or has spread to another part of the body

Velindre University NHS Trust was the first UK site to randomise a patient and are currently the UK's top recruiter.

#### 4.10.2 CAPItello - 291

Study title: A Phase III Double-blind Randomised Study Assessing the Efficacy and Safety of Capivasertib + Fulvestrant Versus Placebo + Fulvestrant as Treatment for Locally Advanced (Inoperable) or Metastatic Hormone Receptor Positive, Human Epidermal Growth Factor Receptor 2 Negative (HR+/HER2-) Breast Cancer Following Recurrence or Progression On or After Treatment with an Aromatase Inhibitor (CAPItello – 291)

The purpose of this research study is to find out if a medication called capivasertib given with fulvestrant (a standard of care medication) will work more effectively than fulvestrant alone in treating patients with locally advanced (inoperable) or metastatic hormone receptor positive, human epidermal growth factor receptor 2 negative (HR+/HER2-) breast cancer. Capivasertib is not approved by any health authority, except for use in research studies.

The Trust is the top recruiter to this trial in the UK.

#### 4.10.3 OPTIMA

## Study Title: Optimal Personalised Treatment of early breast cancer using Multiparameter Analysis

OPTIMA is a study trying to find out if a test called Prosigna can effectively and safely identify whether a patient is likely to benefit from chemotherapy or not.

Velindre University NHS Trust was the second UK site to recruit 100 participants.

### 4.10.4 Study performance rankings

	•	
Ranking	Study Title	Summary
Top Worldwide	IO102-IO103-022	A Phase II Multi-Arm (basket) Trial Investigating the Safety and
Recruiter		Efficacy of IO102-IO103 in Combination with Pembrolizumab, as
		First-line Treatment for Patients with
		Metastatic Non-Small Cell Lung Cancer (NSCLC), Squamous
		Cell Carcinoma of Head and Neck (SCCHN), or Metastatic
		Urothelial Bladder Cancer (mUBC)
		,

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Ranking	Study Title	Summary
Top UK Recruiter and 4 <sup>th</sup> Highest Worldwide Recruiter	Tropion 03	A Phase 3 Open-label, Randomised Study of Datopotamab Deruxtecan (Dato-DXd) With or Without Durvalumab Versus Investigator's Choice of Therapy in Patients With Stage I-III Triple-negative Breast Cancer Who Have Residual Invasive Disease in the Breast and/or Axillary Lymph Nodes at Surgical Resection Following Neoadjuvant Systemic Therapy
Top UK Recruiter	CAPItello - 291	A Phase III Double-blind Randomised Study Assessing the Efficacy and Safety of Capivasertib + Fulvestrant Versus Placebo + Fulvestrant as Treatment for Locally Advanced (Inoperable) or Metastatic Hormone Receptor Positive, Human Epidermal Growth Factor Receptor 2 Negative (HR+/HER2-) Breast Cancer Following Recurrence or Progression On or After Treatment with an Aromatase Inhibitor
Top UK Recruiter	Tropion 02	A Phase 3, Open-label, Randomised Study of Datopotamab Deruxtecan (Dato-DXd) Versus Investigator's Choice of Chemotherapy in Patients who are not Candidates for PD-1/PD-L1 Inhibitor Therapy in First-line Locally Recurrent Inoperable or Metastatic Triple-negative Breast Cancer
Top UK Recruiter	VALTIVE-1	Validation of tie2 as the first tumour vascular response biomarker for vegf inhibitors: optimising the design of a subsequent randomised discontinuation
2 <sup>nd</sup> Highest UK Recruiter	CUPCOMP	Carcinoma of Unknown Primary Site (CUP): A comparison across tissue and liquid biomarkers
2 <sup>nd</sup> Highest UK Recruiter	ОРТІМА	Optimal Personalised Treatment of early breast cancer using Multi-parameter Analysis
Joint 2 <sup>nd</sup> Highest UK Recruiter	CYPIDES	Safety and pharmacokinetics of ODM-208 in patients with metastatic castration-resistant prostate cancer II trial for patients with a poor early response using positron emission tomography (PET)
3 <sup>rd</sup> Highest UK Recruiter	CONCORDE	A platform study of DNA damage response inhibitors in combination with conventional radiotherapy in non-small cell lung cancer
3 <sup>rd</sup> Highest UK Recruiter	TRITON 3	A Multicenter, Randomized, Open-label Phase 3 Study of Rucaparib versus Physician's Choice of Therapy for Patients with Metastatic Castration-resistant Prostate Cancer Associated with Homologous Recombination Deficiency
Joint 3 <sup>rd</sup> Highest UK Recruiter	Cardiac Care	A multicentre prospective randomised open-label blinded end- point controlled trial of high-sensitivity cardiac troponin I-guided combination angiotensin receptor blockade and beta blocker therapy to prevent cardiac toxicity in breast cancer patients receiving anthracycline adjuvant therapy.
Joint 3 <sup>rd</sup> Highest UK Recruiter	ATLANTIS	An adaptive multi-arm phase II trial of maintenance targeted therapy after chemotherapy in metastatic urothelial cancer
Joint 4 <sup>th</sup> Highest UK Recruiter	NET-02	A non-interventional, multicenter, multiple cohort study investigating the outcomes and safety of atezolizumab under real-world conditions in patients treated in routine clinical practice

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Ranking	Study Title	Summary
-4		
5 <sup>th</sup> Highest UK Recruiter	TRAP	Targeted Radiotherapy in Androgen-suppressed Prostate cancer patients

# 5 Velindre Cancer Centre hosted research – Action Plan(s)

## 5.1 Radiotherapy research

## 5.1.1 Radiotherapy Trials Research Solutions

Delivery of the Radiotherapy and combination Drug/Radiotherapy research portfolio has been and continues to be a challenging resulting from the capacity limitations across the Radiotherapy service.

The Radiotherapy service has not been able to deliver the required full capacity to meet the research demand and growth for a variety of reasons.

A Radiotherapy Trials Research Solutions group has been established to review the situation, identify, and implement mitigation strategies to improve to improve the Radiotherapy service's capacity in terms of research studies and the wider service.

## 5.1.2 Radiotherapy Trial Portfolio Group (RT-TPG)

The Radiotherapy Trial Portfolio Group (RT-TPG) has been re-established to monitor the portfolio and Radiotherapy service position by bringing together required parties.

- **Communication** the group continues to build communication and interaction between VCC research teams to improve the provision and delivery of both Radiotherapy and combination Drug/Radiotherapy clinical trial research.
- Reporting Governance processes are being developed to improve accurate and timely reporting of operational and strategic issues to the Trust's R&D service and tri-partied Radiotherapy Management Group (RMG).
- Radiotherapy Clinical Trial Risks The process for documenting Radiotherapy clinical trial risks and subsequent mitigating strategies is under review.
- Assessment Tool The development of an assessment tool to aid evaluation of
  clinical trial requirements alongside the service position is in operation. Whilst this is
  multifaceted and complex, the purpose is to acknowledge the likelihood of
  successful study set-up prior to undertaking the feasibility process, helping to
  mitigate against increasing study timelines.

### 5.2 Oncacare

Having been introduced to the Trust in 2021 by WCRC, the Trust has signed a Letter of Intent and Confidentiality Agreement with Oncacare. The Letter of Intent contained Oncacare's offering to the Trust in the context of the NHS and its well-established four

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nations systems and processes in the set-up of commercial clinical trials. The Trust has been leading on this initiative for Velindre University NHS Trust working with the research leads at Cardiff & Vale University Health Board to develop an agreement that will allow them to also establish a relationship with Oncacare.

Through Oncacare, Velindre will be offered studies with a guarantee of being a research site should the Trust decide these studies would be beneficial for our patients. This arrangement does not exclude the Trust from maintaining and developing its current relationships with Sponsors and other CROs and to manage delivery of its portfolio of commercial studies independent of Oncacare.

During 2022/23, in accordance with its ambition to seek and accelerate relationships with commercial organisations, the Trust's Head of R&D has:

- Sought to draft a Master Collaboration Agreement with input from NHS Wales Legal and Risk Services in readiness for the Trust's execution once agreed.
- Negotiated with Oncacare, the terms of a business plan, financial provisions and funding to support and deliver these and other studies.

This work is expected to conclude in financial year 2023/24, with the Trust executing an agreement with Oncacare.

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## **STRATEGIC PRIORITY 2:**

The Trust will maximise the Research & Development ambitions of the Welsh Blood Service

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## 6 Advancing Kidney Transplant Treatments

We celebrate our colleague Felicity May completing her Higher Specialist Scientist Training after five years of study.

In 2020 Felicity embarked on the research phase by leading an NHS Research Study entitled "Development of a predictive biomarker profile to stratify the response of potential kidney recipients to antibody reduction and immune modulation (IRAS 292042)." This study investigated the response to desensitisation treatment in patients awaiting a kidney transplant.



Pictured: Felicity May, picking up patient samples from University Hospital of Wales.

Felicity conducted her research with academic support from the University of Manchester and in collaboration with the Nephrology and Transplant Department clinicians at the University Hospital of Wales, Cardiff. Later, we explain the clinical impact of this study.

This original research contribution to knowledge generation in healthcare science and satisfying the Royal College of Pathologists academic examinations led to Felicity being awarded her Doctorate of Clinical Science in February 2023.

Here we explain the importance of this research and how it can help patients with kidney disease.

## 6.1 Improving transplantation outcomes

On average, a patient waits over two years for a kidney transplant. There is a far greater demand for kidney transplants than available organ donors. Not every organ is safe for every patient. When a kidney becomes available for transplantation, many clinical and laboratory factors determine which patient receives the donated kidney.

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Felicity investigated the immune system of kidney transplant patients to help address a significant inequity issue.

## 6.2 A barrier to successful transplantation

The immune system makes molecules called antibodies to help fight off illness. However, antibodies cause problems for potential transplant recipients because they can lead to the rejection of transplanted organs. Most patients on the transplant waiting list have high levels of antibodies. High antibody levels reduce the likelihood of successful transplantation. Patients with high antibody levels wait longer for a compatible organ or may never be eligible for a kidney transplant.

### 6.3 What can be done?

Treatments are available to reduce antibody levels in patients awaiting a kidney transplant. The treatment is desensitisation and allows patients to be successfully transplanted with otherwise 'incompatible' organs.

Desensitisation describes a range of treatments used to remove antibodies from donor patients. Some treatments target the cells that generate antibodies, and some target the antibodies themselves. However, desensitisation is not an effective treatment for all patients. The response to desensitisation treatment can vary. The treatment works effectively in some patients, but others do not respond as hoped.

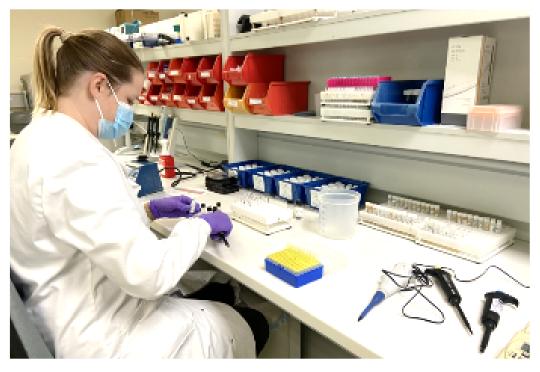
Giving patients desensitisation treatment exposes them to unnecessary side effects if the treatment does not work. Due to this knowledge gap, clinicians cannot predict whether a transplant patient will respond to desensitisation treatment.

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## 6.4 Felicity's Research Impact

Felicity designed and conducted a research project to address this knowledge gap. Felicity investigated twenty-seven transplant patients who underwent desensitisation treatment before transplantation. The research examined serum samples collected from patients at different time points before and after treatment. It is not possible to predict patient response to desensitisation treatment using antibodies alone. Therefore, Felicity looked at levels of cell signalling molecules, which have rarely been studied in transplant patients.



Pictured Testing in the WBS's Welsh Transplantation & Immunogenetics Laboratory

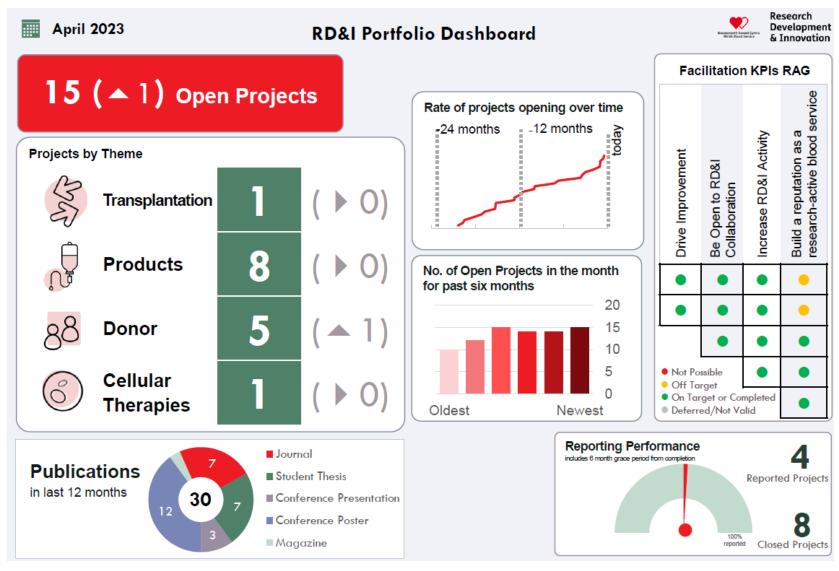
Felicity discovered some unintended effects of desensitisation treatment. In some patients, the treatment increased cell signalling for antibody production! This is a surprising discovery that needs further exploration.

Felicity's project is a step towards understanding why some transplant patients do not respond to desensitisation treatment. Felicity's research will aid further studies which hope to minimise unnecessary treatment for kidney transplant patients and inform alternative treatments.

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## 7 Welsh Blood Service RD&I Dashboard



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## 8 Open Projects Portfolio

The Welsh Blood Services RD&I Portfolio of open project as of 01 Jan 2023.

Project Name	WBS Project ID	WBS Research Theme	WBS Staff Lead	Involvement
Investigating the role of the bone marrow microenvironment in the pathogenesis of Acute Myeloid Leukaemia (AML)	96	Cellular Therapies	Emma Cook	NHS Research
Sero-surveillance for SARS- CoV-2 infection in blood donors in Wales	127	Donor	Sian James	WBS led RD&I
What donor contact method gives us the best return?	160	Donor	Kate Satherley	WBS led RD&I
Bioenergetic Profiles of Platelets in Storage as an Indicator of Platelet Viability & Function	162	Products	Chloe George	WBS led RD&I
The use of legislation and regulation as a means of improving quality in public healthcare services	164	Donor	Peter Richardson	WBS led RD&I
Titre scores: An alternative to continuous flow analysis for monitoring antenatal patients in the Welsh Blood Service?	165	Products	Avi Brick	WBS led RD&I
Use of Global Haemostasis Assays for the Evaluation of Thawed Plasma for Clinical Use	166	Products	Michael Cahillane	WBS led RD&I
Use of Haemostasis Assays for the Evaluation of Five-Day Thawed Plasma for Clinical Use	167	Products	Elisabeth Davies	WBS led RD&I
Improving Platelet Storage (PhD Cardiff Metropolitan University)	168	Products	Christine Saunders	WBS led RD&I
The effect of digital technology on blood donor engagement and its impact on levels of engagement in South Wales	169	Donor Care & Public Health	Andrew Paramore	WBS led RD&I
Cold Stored Platelets for Pre- Hospital Emergency Resuscitation (CoPPER): Laboratory Testing	170	Products	Jamie Nash	WBS led RD&I
Service Support of the Role of donor derived cell free DNA (DD cfDNA), islet derived exosomes and proinsulin in diagnosing pancreas graft acute rejection (EMPAR) study	171	Transplantation	Emma Burrows	The WBS support of others RD&I

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Project Name	WBS Project ID	WBS Research Theme	WBS Staff Lead	Involvement
Effect of mixing on the quality of red cells at time expiry	172	Products	Nicola Pearce	WBS led RD&I
Established a reliable and sustainable blood donation and blood quality system to support the nationalization of manufacturing of plasma fractionation in the Kingdom of Saudi Arabia (IRAS: 271608)	173	Donor Care & Public Health	Edwin Massey	NHS Research

# 8.1 The support of the Biomedical Excellence for Safer Transfusion (BEST) Collaborative

The Welsh Blood Services BEST-C as of 01 Apr 2023.

Project Name	WBS Project ID	WBS Research Theme	WBS Staff Lead
BEST-C 142 Project: A comparison of anti-D titres using gel and tube technologies	157	Products	Chloe George

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## 9 Key Performance Indicators of the Welsh Blood Service RD&I Strategy

Objective	Activity	Indicator or KPI Ta	acilitation arget	Co-dependan t on	ndan Target Month by Month Status												
Drive Improvement	t					A	M	J	J	A	s	0	N	D	J	F	M
Ensure our research efforts are of the highest quality	Applications for NHS Research approval will adhere to NHS Permissions Performance metrics	Velindre NHS Trust to national KPI for NHS Permissions	~	Velindre Trust R&D	100% Compl iance	<b>~</b>	<b>~</b>	<b>~</b>	~	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	×	⚠	Δ	~
Obtaining sustainability for RD&I activities	The utilisation of the RD&I funding	WBS RD&I spend per fiscal year		WBS Finance		<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
Be Open to RD&I C	ollaboration																
Embed a positive culture around RD&I activity / Actively seek collaborative partners to develop appropriate RD&I projects	Maintain an active media presence for RD&I to highlight our achievements	Deliverables described in Communicatin g Achievements	<b>~</b>	WBS Donor Engageme nt Communic ation	100% delive ry	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	Δ	Δ	Δ	<b>~</b>
Actively seek collaborative partners to develop appropriate RD&I projects	Participation in all applicable BEST-Collaborative projects, as invited	Project invitations as received by our BEST-C members and actioned appropriately		BEST C Member Rep	100%	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	$\triangle$	<b>~</b>	~	<b>~</b>
Actively seek collaborative partners to develop appropriate RD&I projects	An inviting RD&I presence on WBS Internet Webpage	All website content must be bilingual.	<b>~</b>		Refre shed annua I	<b>~</b>	$\triangle$	$\triangle$	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>	<b>~</b>

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RD&I - Integrated Performance Report

Increase RD&I Act	vity					Α	M	J	J	Α	s	o	N	D	J	F	M
Ensure our research efforts are of the highest quality / Embed an RD&I positive culture in WBS	Provision of the Learning Zone, ensuring that it is in line with the RD&I strategy and current and future needs of the Service.	A service provision for users of the Learning Zone, adapting and meeting needs.	<b>~</b>			<b>~</b>	<b>✓</b>										
Organise and co- ordinate our research activity / Obtaining sustainability for RD&I activities	A pipeline of planned RD&I activity across the organisation.	A planned, continuous programme of RD&I projects in each of the four RD&I themes.		v tl	Achie ved in this docu ment	<b>~</b>											
Developing our workforce capability/ Embed an RD&I positive culture in WBS	Maintain and promote membership of ISBT, AABB and the BEST-Collaborative	Ongoing membership; Signposting to membership resources, funding opportunities, and learning events.	•	le	At least ten	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>	•	<b>~</b>	<b>✓</b>	<b>~</b>	<b>~</b>
Organise and co- ordinate our research activity	Adequate planning and resourcing of RD&I Projects before commencement and correct modification to resourcing of RD&I projects.	Projects reporting to green project status (ongoing as planned).		s 7 p a o p w T	Green status for 70% of projects and 70% of the project with a Time Index of	<b>~</b>	•										

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RD&I - Integrated Performance Report

Build a reputation	as a research-activ	e blood serv	ice		Α	M	J	J	Α	s	O	N	D	J	F	M
Build a reputation as a research-active blood service	Our RD&I findings will be disseminated to the healthcare field through publication and publicity. (Related activity RD&I to fund delegations (which can occur including our external collaborators) to a conference, with an encouragement to contribute to conference proceedings)	A suitable disseminatio n activity (e.g., conference proceedings/ publication) for every completed WBS–led RD&I project		100% of WBS-led projects need to demonstr ate how they have achieved this dissemin ation activity.	<b>~</b>	⚠	⚠	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	~	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
Measuring and defining Progress and Success	WBS's publication output needs to be of high scholarly level as a marker of the work's high quality. When appropriate, the PI of the RD&I project will be asked to seek a peerreviewed publication to disseminate its findings	# of peer- reviewed publication outputs		80% of complete d RD&I projects achieve a peer- reviewed publicati on	<b>~</b>	$\triangle$	<b>~</b>	<b>~</b>	⚠	~	~	~	<b>~</b>	$\triangle$	⚠	$\triangle$
Build a reputation as a research-active blood service	An RD&I Event with WBS showcasing our work.	Half-day or evening event, possible co- produced with another organisation. Showcasing RD&I	~	Event due late 2022	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	Δ	$\triangle$

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RD&I - Integrated Performance Report

Measuring and defining Progress and Success	We will disseminate our RD&I findings to others.	Number of scholarly publications* (scholarly is a peer-reviewed publication and is to include the publication of conference proceedings)		Maint ain curren t output	<b>~</b>	<b>~</b>	~	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>
Measuring and defining Progress and Success	A quarterly report is produced and published to promote the achievement of the previous three months and present the current status of the WBS RD&I portfolio	a quarterly report delivered to WBS RD&I Group and elsewhere	•	Every three month s	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	⚠	$\triangle$	$\triangle$	Δ	Δ	<b>~</b>

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## **STRATEGIC PRIORITY 3:**

The Trust will implement the Velindre Innovation Plan

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## 10 RITA – a Chatbot powered by Artificial Intelligence

RITA has now been deployed successfully on the Trust website since February 2023, both on the Velindre Cancer Centre main page and the dedicated RITA Project page. Performance measures and usage data are continuing to be collected to measure the number of users compared to the soft launch figures and calculate the average number of users per month (currently at 29). Analytics show the current most popular areas of questioning relate to support, facilities, department locations and definitions of medical terminology. The RITA project team meets weekly to review performance, make amendments to any questions not answered and update content as needed.

The "Plus" package provided by IBM is due for renewal in June 2023 and the Innovation Project Manager is currently in discussion with both the innovation and IBM team to evaluate whether another year should be purchased.

## 10.1 RITA – "Talking Heads" sub-project

'Talking Heads' is an exciting new project within RITA Chatbot to produce a series of two-minute 'Talking Head' videos that will introduce individual Clinical & Healthcare staff and their roles. These videos will then be available as embedded media within the virtual assistant when a patient asks a question relating to that clinical area. Velindre will also be integrating the videos onto the Trust website.

These clips will allow patients, family, and carers to understand the role of their key workers and clinicians and help ease the anxiety of attending Velindre. Initial filming took place in October 2022 having filmed 38 clinicians. There is a further one and half day's filming left to cover all internal footage of VCC departments and external drone footage of the site.

We have now received all the clips from the production company and will be integrating them into RITA over the coming weeks, while also being utilised as separate media on the Trust website and the BYS Localisation project, giving patients the opportunity to view clinical areas and the site before attending.

# 11 ByYourSide – Localising Pfizer's Global Patient Cancer App

The Patient Solutions Team at Pfizer were looking to improve their cancer 'By Your Side' website and mobile app. This is a digital solution that supports patients with cancer in managing their health, wellness, and everyday life. 'This is Living With Cancer (TLWC)' known as By Your Side (BYS) in the UK is an existing application available for all cancer patients to help their general well-being and daily tasks. TLWC/BYS aims to be a one-stop repository of support for cancer patients, but to be more effective, it could better tailor its content to patient need. The challenge is to localise web and app content to be most

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useful for each patient using the app. The longer-term aim could be to offer a simple and personalized connector solution to empower cancer patients to live the best lives they can.

The combined Velindre and Pfizer team had a sprint project that they delivered in three months. The project aimed to have piloted a new localisation concept for BYS and evaluate it for consideration of larger programme scaling to geographical areas with other partners. Pfizer's objective with the new concept is to offer a simple personal experience to patients looking for day-to-day support utilising a digital platform for their health management and ability to connect easily to local specialised support when expert follow-up is needed.

Velindre was the first project in the UK selected by Pfizer and the project was delivered to budget and time.

## **Phase 2 Proposal**

Following the success of this project, Pfizer has approached Velindre to conduct a Phase 2 of BYS localization, with a view to implement the suggestions and feedback given by Velindre Cancer Centre patients during the initial workshops and make the app available to all our service users.

Successful implementation of this Phase will provide Velindre with a ready-made patient app that has centralised, and localised information pulled directly from the Trust website, available to our users within its own 'My Centre' section. Velindre will be the first Trust in the UK to have this feature available to our patients.

The Innovation Project Manager presented this proposal to the EMB on 20<sup>th</sup> February 2023 and received a positive outcome to pursue contracting for the next phase. A working project team is currently being formed to evaluate content options, while a DPIA is in the process of being completed to ensure the correct governance procedures are followed prior to launch.

## 12 Workforce Innovation & Research Survey

Research and innovation are vital parts of improving Cancer services at Velindre University NHS Trust. The Trust therefore strive to improve the Research, Development & Innovation service, to support clinical teams in advancing their professional areas of care.

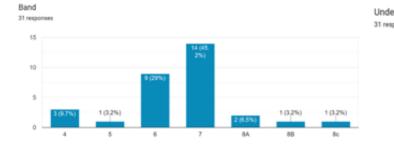
The Innovation Team have produced a short survey as a baseline to assess innovation understanding and uptake of innovation and research projects within Velindre. This has been disseminated to Velindre Cancer Centre staff in the hope that will also help us understand what their needs and understanding are, in terms of education and support in becoming involved in Research, Development & Innovation to the benefit of our patients.

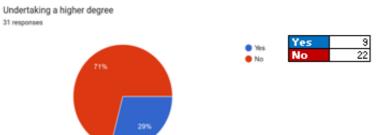
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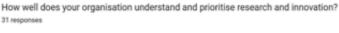
## The survey saw 31 responses to the online survey – the results can be seen here:

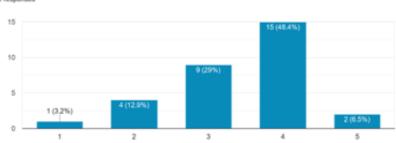
## Nurse, AHP and Clinical Scientists Staff Research & Innovation Survey Response Summary

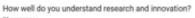


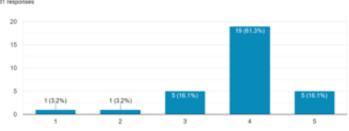


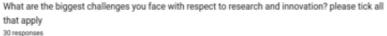


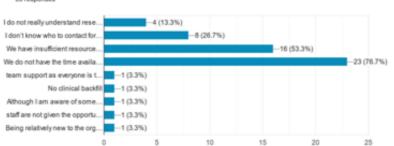






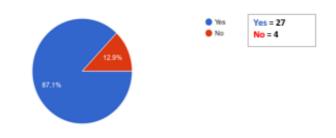




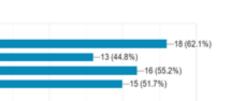


Have you ever participated (or do you plan to participate) in Research or Innovation in your current

31 respon



What are your educational & training needs to become involved in research and innovations Tick all What do you think your role is in research and innovation? Please select your band first: that apply



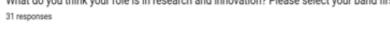
-13 (44.8%)

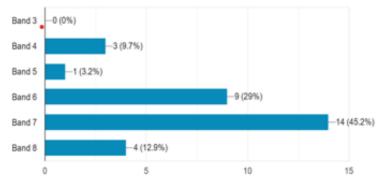
Higher Degree

-15 (51.7%)

-15 (51.7%)

18 (62.1%)





Supporting others to carry this out I cascade information I embark on RD&I myself

I feel it is a key part of my role, both as a clinician and clinical lead for the service.

participate in sponsored studies, participation in SST IT / digital project

I should be involved in the development of service and innovation with new evidence that comes out. I believe I should play an active part in team research, but that my Band 7 would typically be the leader for this, unless delegated

Promotion and looking for ways to improve

it is one of the four pillars of practice and is vital to supporting evidenced based care

To progress innovation within the service to ensure up to date treatments and side effect management

To develop, take part in and lead true research and innovation projects within Radiotherapy at Velindre.

participate and promote research activities withing RT

Senior member of treatment planning section, so supporting developments as assigned. Recent focus on Non-Medical Target definition and associated / wider arena of workforce development and advanced clinical Proposing and supervising research projects.

To provide practical experience and expertise in the development of new projects and their incorporation into clinical practice.

to lead and promote participation in both

to contribute ideas/ provide feedback

MY role is entirely involved in research

One of the 4 Pillars of Practice which is essential for my Advanced Practice role

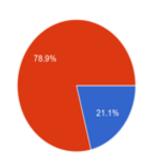
Promotion, conducting research and innovation

I think research and innovation should transcend roles as we all have ideas and new ways of approaching projects, or seeing gaps in services.

supporting and encouraging junior staff to explore their own questions? VCC service needs? patients needs

Don't really understand the previous question providing an effective change in service, measuring the effectiveness with robust data, analysing it and presenting it

Please state whether part of a higher degree or purely a project based on the needs of the service 19 responses





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29 responses

How to do a Literature search.

How to write a grant applicatio.

Research and Innovation Meth.

Research and Innovation ethic..

Understanding Informed cons..

Analysing a research or innov.

Applying for R&D approval

Writing up project findings

Abstract writing

i want to use my existing skills... -1 (3.4%)

Publication

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## 13 Pan-Wales patient centred Radiotherapy Services for Advanced Cancer Symptoms

With the current difficulties in delivering radiotherapy for advance cancer and with increasing demand coupled with a worsening workforce crisis in clinical oncology, Consultant Oncologist Mick Button and Radiotherapy Planning Radiographer, Steven Hill are undertaking a Bevan Commission project through the Planned Care Innovation Programme (PCIP) to improve the Palliative Radiotherapy pathway.

The vision is to deliver a high-quality, sustainable, efficient service for patients needing radiotherapy for cancer symptom control – wherever in Wales they live.

This has 3 components:

- High-quality clinical care
- High-quality communication and decision making
- High-quality training

Across Wales, roughly 150 patients a month have radiotherapy with the aim of urgently minimising their cancer symptoms and improving their quality of life. This is over a quarter of all radiotherapy courses delivered.

Currently, patients needing such radiotherapy can only be seen and assessed by senior clinical oncologists, who also are required to plan and prescribe the treatments. It requires multiple pre-arranged hospital visits (clinical assessment, CT planning and then treatment) – but is usually a very effective, well-tolerated and cost-effective way of improving patients' quality of life and reducing symptoms due to advanced cancer.

The project is drawing to a close and a hybrid showcase event was held at the National Imaging Academy Wales on 3<sup>rd</sup> May 2023, with representatives from across all 3 cancer centres presenting their work along with contributions from Canada and the Clatterbridge. This event saw 50 in-person and 15 online attendees, with the roundtable discussion resulting in an agreement to develop more detail about the way forward, working with attendees at a future date to produce a national proposal with locally developed detail prior to September 2023.

## 13.1 ACTAH Project

Due to an approach by a C&V emergency medicines consultant, Velindre has initiated the ACTAH project with the goal of developing a new service that utilises home visits to manage acute oncology patients experiencing an acute episode in collaboration with Cardiff and Vale Health Board. Management in this way could help prevent unnecessary hospital admissions and there is a particular focus on avoiding A&E admissions if it is safe to do so. Furthermore, the ACTAH project aims to manage these cancer patients with

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acute issues in the community for better experience and outcomes. For the initial pilot deployment, this will be rolled out in the Cardiff area only.

### Objectives:

- 1. Reduce admissions to VCC and A&E & DGH.
- 2. Treating oncology patients at home if it is safe to do so.
- 3. Subsequent continued care of the patient at home if safe.
- 4. For patients that will require admission, stabilise at home and arrange the most appropriate admission pathway.
- 5. Create better experiences and outcomes for patients with acute episodes.

We are in the very early stages of this project, with a preliminary meeting taking place to discuss clinical leads for the project and identify pathways. A subsequent meeting is due to be held at the Life Sciences Hub in the coming weeks.

## 14 Welsh Blood Service (WBS) Drone Project

The purpose of this foundation study is to:

- establish the potential for drone-based delivery services to support the Welsh NHS, including specific use cases for the Welsh Blood Service.
- test the basic premise with the Civil Aviation Authority
- identify the roadmap and critical tasks that will allow us to realise the longer-term vision.

The organisations involved in this partnership are the Welsh Ambulance Service NHS Trust (WAST), The Welsh Blood Service (WBS), Snowdonia Aerospace (SAC) SLiNKTECH Ltd. (SLiNK), The Welsh Air Ambulance and the Welsh Emergency Medical Retrieval and Transfer service (EMRTS), collectively referred to as the Welsh Health Drone Innovation Partnership.

Following completion of a requirements gathering exercise and an initial assessment of the clinical, technical, and regulatory feasibility, a report is available, and will be shared with a wider group of senior stakeholders with a view to arranging a launch event in the Spring of 2023.

In the meantime, given the success of the foundation study a further application for funding support to explore a proof of concept of Beyond Visual Line of Sight (BVLS) drone flights is being prepared for the Welsh Government Innovation team to consider by the above partnership.

## 15 Regional Innovation Coordination Hubs (RICH)

The Velindre Research, Innovation, Improvement Coordinating (RIIC) Hub has helped to raise the profile and the importance of RD&I within and without the Trust and has had a

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significant impact on the development of innovation infrastructure. This is reflected in the Velindre University NHS Trust's new ten-year Strategy that fully aligns with the principles set out in 'A Healthier Wales' (AHW). Importantly the Trust's strategic goal 3 is to be "a beacon for research, development and innovation in our stated areas of priority."

Through partnership working, the Trust is committed to building its national and international reputation through the successful development and delivery of a high impact RD&I activity that:

- Delivers the best possible interventions that improve survival and enhance the lives
  of patients who will remain, "at the centre of all that we do."
- Attracts and retains the best staff and make RD&I a core part of their roles.

The Trust's new Strategic Goal 4 also supports the previous RIIC ambitions to be an established 'University' Trust which provides highly valued knowledge and learning for all.

The work of the RIIC hub is facilitated in Velindre by the organisational structure aligning research, development, and innovation into one division, led by the Executive Medical Director. During year 3 of the RIIC Hub, an integrated quarterly report has been developed that comprehensively covers the whole Trust, including the Cancer Centre and Welsh Blood Service.

The significant achievements of the hub include:

- Developing a strong collaborative network with the other Trusts through fortnightly meetings. Developing key themes to launch collaborative projects.
- Contributing to the All-Wales RIIC Network
- Supporting developments across RD&I, including the:
  - Cardiff Cancer Research Hub and programme
  - New Cancer Hospital including the combined learning and Innovation centre

     supporting the ambition to develop the smartest and greenest hospital in
     the country. This is part of an ambitious Regional Cancer Transformation
     Programme
  - New component lab in WBS
  - Healthcare Professionals R&I portfolio
  - New innovation infrastructure and plan

Despite the continuing implementation of Covid restrictions and the pressure this creates, particularly on clinical staff, the Velindre RIIC hub has provided much needed capacity funding to raise the profile of R&I and importantly develop the infrastructure for innovation with the refocus to Regional Innovation Coordination (RIC) Hubs. The refocus of the RIIC hubs in this 4th year will help to strengthen innovation to deliver higher impact collaborative projects.

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## **STRATEGIC PRIORITY 4:**

The Trust will maximise collaborative opportunities locally, nationally & internationally

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## 16 Trust Sponsored Research

Sponsored research is the research where the Velindre University NHS Trust takes the legal responsibility for the design, management and conduct of the research. Sponsored research may be hosted by the Trust and/or hosted by other healthcare organisations and research institutions across the UK, Europe and World-wide. The number of Trust sponsored studies may be relatively small, but the Research & Development team commit a significant amount of resource to ensure that the Trust's sponsor responsibilities are met.

The Trust may delegate some sponsor responsibilities to a clinical trials unit to manage larger research studies hosted by other healthcare organisations and research institutions.

Up to the end of Financial Year 2022/23, the Trust sponsored research portfolio is as follows:

Metric Description	Year to date
Number of new sponsored research studies (Total)	1
Number of sponsored research studies that are Trust-wide	N/A
Number of sponsored research studies that are UK-wide	N/A
Number of sponsored research studies that are Europe-wide	N/A
Number of sponsored research studies that are World-wide	N/A
Number of research sites opened for sponsored research studies	7

Metric Description	Year to date
Number of publications from sponsored research studies	10
Journal article	2
Abstracts	8
Number of participants recruited to sponsored research studies	231

# 17 Service improvement recognition at Welsh Blood Service

The Welsh Blood Service RD&I Facilitation Team has been awarded a Spotlight on Service Improvement Bronze Award, recognising their implementation of Microsoft Power Platform into business processes.

An electronic form has been developed to record Publication requests and authorisation, replacing the previous paper-based method. The automation allows proposal manuscript capture, approver's notification and review outcome, and integration with Microsoft Office and SharePoint suite. The programming then tailors the process based on submitted responses leading to a streamlined approval.

The award reflects the implementation of a modern, efficient operation and recommends that colleagues using paper-based processes for internal approvals consider moving to this innovation.

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# 18 Enabling patients with haemochromatosis to donate their blood

The Blood Health Team of the Welsh Blood Service have placed the initiative to enable Haemochromatosis patients to be treated via blood donation has been successfully included in the Bevan Commission's Bevan Exemplar Programme.

Haemochromatosis is an inherited condition where iron levels in the body slowly build up over many years. This build-up of iron, known as iron overload, can cause unpleasant symptoms. If it is not treated, this can damage parts of the body such as the liver, joints, pancreas and heart.

Treatment is regular venesection, which removes one unit of whole blood. Currently, most Haemochromatosis patients in Wales are treated by their NHS Health Boards, where units of blood are disposed of. However, blood from the venesection procedure can be utilised for donation by the Welsh Blood Service, as venesection and blood donation are similar medical procedures.

This 'Enabling patients with Haemochromatosis to donate their blood' project has been designed to offer an accessible and equitable service to patients with Haemochromatosis by standardising and optimising the referral pathways into blood donation at the WBS. This aim aligns with the strategic objectives of the Welsh Government's Blood Health Plan, which is to improve general blood health.

Considering an ongoing national blood stock shortage and in line with prudent healthcare benefits, WBS and NHS Wales organisations offer resilience to the blood supply chain, reduced clinical healthcare spending, and a sense of altruism for the Haemochromatosis patients.

The project will be led by Elisabeth Davies, a Clinical Scientist at WBS through its Blood Health Team. The project encompasses the education of Healthcare Professionals (HCPs) on patient empowerment, establishing standards in 'All Wales' clinical referral pathways and influencing donation clinic planning in WBS.

This project continues through 2023 in to early 2024.

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# **CROSS CUTTING THEMES:** across Strategic Priorities 1 to 4

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## **19 Cross-cutting themes: progress**

Cross-cutting themes across Strategic Priorities 1 to 4.														
	FY2022/23					FY2023/24			FY2024/25					
Key Deliverables / Objectives	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Progress / Comments	
The implementation of programmes, complementing existing training opportunities that enable and support Trust staff to develop, deliver and manage research portfolios														
<ul> <li>Complete the review of existing training opportunities (identified in 2021/22) to develop an implementation plan for a complementary programme that enables Trust staff to develop, deliver and manage research portfolios.</li> </ul>			Х										Training Programme & Opportunities This work is an ongoing improvement of the RD&I Division's service.  Work continues to develop and implement a R&D/Trials training programme draws upon:  Trust developed internal training  Training developed by other research partners and organisations such as Health and Care Research Wales  Training from specialist non-commercial and commercial training providers  to support Trust staff to develop, set-up and deliver, and manage portfolios of clinical trials/research studies.	
<ul> <li>Complete the implementation of a programme that enables Trust staff to develop, deliver and manage research portfolios</li> </ul>								Х						
<ul> <li>Ongoing review and improvement of the programme that enables Trust staff to develop, deliver and manage research portfolios.</li> </ul>												X		
<ul> <li>Further investment in the research delivery and governance teams to make sure that studies are optimised to facilitate effective and timely recruitment and delivery</li> </ul>														
<ul> <li>Continue the development and implementation of staffing plans for the research delivery and governance teams (identified in 2021/22) to facilitate effective and timely recruitment and delivery.</li> </ul>	Х												Reorganisation of Trust Research Delivery team This work is an ongoing improvement of the RD&I Division's service. Work continues to keep under review and consolidate proposals and implementation of changes to the	
<ul> <li>Complete the appointment of senior staff in the research delivery team and to support the delivery of the Cardiff Cancer Research Hub</li> </ul>		Х												

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# RD&I - Integrated Performance Report

Cross-cutting themes across Strategic Priorities 1 to 4.														
			FY2022/23		FY2023/24				FY2024/25			5		
Key Deliverables / Objectives	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Progress / Comments	
<ul> <li>Complete the implementation of changes to the structure of the research delivery team administrative structure.</li> </ul>			Х										structure of the research set-up and delivery team structure.	
<ul> <li>Keep under review the investment in the research delivery and governance teams supporting research studies, identifying target investment areas as appropriate.</li> </ul>					Х	X	X	X	Х	X	Х	Х		
<ul> <li>The development and implementation of clinical information systems to identify donors/patients eligible to take part in research studies</li> </ul>														
<ul> <li>Complete the R&amp;D contribution to the Trust's implementation of the Digital Health &amp; Care Record in line with the Trust's project schedule.</li> </ul>		Х											Delivery of the Digital Health and Care Record system  Having contributed to the Trust's implementation of th Digital Health & Care Record programme, implement in November 2022, continue to keep under review the input of, and use of information, making recommendations for improvement as appropriate.	
<ul> <li>Complete a review of clinical information systems available (in conjunction with partner stakeholders, i.e., DHCW and HCRW) to identify research study participants.</li> </ul>				Х										
<ul> <li>Complete the implementation of a clinical information system that identifies donors/patients eligible to take part in research studies.</li> </ul>					Х	Х	X	Х						

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# **CORPORATE**

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# 20 RD&I Finances

# 20.1 Background / context

The RD&I Division manages all income and expenditure relating to the R&D Office, Research Nursing Delivery Teams, Early Phase Team, Innovation Team and administrative staff such as Trials Coordinators and Data Managers. Along with a significant number of individual project and trial budgets, this comprises most of the Trust's research and innovation activity and is the subject of this finance report. Outside of this report are those staff managed outside the RD&I Division, e.g., pharmacy and radiotherapy research staff, who are reported as part of the relevant Divisional reports (e.g., VCC).

For 2022/23 the overall RD&I Financial Plan comprised targets to:

- **Spend £3.6m on research activities**, of which most (80%, £2.9m) is salary costs, including:
  - Management, trial support, data, and administrative staff (35%)
  - Nursing staff (28%)
  - Medical staff (10%)
- Secure income of £3.7m from multiple sources, most significantly:
  - Health & Care Research Wales (30%)
  - Reimbursements from commercial clinical trials (20%)
  - Support from the Velindre charity (19%)
  - Funding for trials where Velindre is the lead sponsor (13%)

# 20.2 Summary of Performance against Key Financial Targets

20.2.1 Key Financial Target 1: to remain within budget expectations Key financial performance figures for Quarter 4 and the Outturn for the year are summarised in the following table:

	3	0003					
		Pay	Non-Pay	Income	Total Variance		
	Budget	862	65	1,573			
Quarter 4	Actual	703	175	1,527			
	Variance	-159	110	46	-3		
	Budget	2,865	700	3,713			
Full Year Outturn	Actual	2,576	827	3,556			
	Variance	-288	127	157	-4		

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### 20.2.2 Analysis of Performance in Quarter 4 and End of Year Outturn

Performance through the fourth quarter has been in line with the Budget Plan, with a £3k positive overall variance being recorded. Within that total figure are some notable trends, where the main features are:

- higher than expected vacancies due to staff turnover, maternity and difficulties recruiting to posts has meant a further underspend on pay costs, adding a further £159k underspend to the total; and
- in turn, this has allowed the Division to:
  - o reduce the expectation of income from sources such as Velindre Charitable Funds, as well as:
  - undertake some limited investment activities, including replacement of minor equipment, support for staff attendance to present Velindre research papers at conferences, and providing support for research sites where Velindre is the lead Sponsor.

Once all income and expenditure was fully accounted for, <u>the outturn for the Division</u> <u>was a minor variance of £4k underspent for the year</u>. This followed the same pattern in each quarter, with significant staff underspends due to vacancies, maternity leave etc. meaning that income expectations from sources such as the Velindre Charity could be reduced, and non-pay expenditure could be increased where justified to do so.

### 20.2.3 Key Financial Target 2: to pay at least 95% of invoices within 30 days

In the year, 50 out of 468 invoices missed the 30-day payment target, which meant the overall target was missed. This was mainly due to the unusual situation in RD&I where patient research records need to be investigated by the research team before confirming invoices can be paid for support services such as pathology and imaging. For 2023/24 a R&D Office project will determine whether this process can be streamlined further within RD&I.

	Quarter 4	Outturn
NHS Invoices	78%	91%
Non-NHS Invoices	87%	89%

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### 20.2.4 Pay Analysis by Staff Group

	2022/23 Outturn				
	£288k less than budget				
	Budget	Actual	Variance		
PAY GROUP	(£'000)	(£'000)	(£'000)		
Professional Scientific & Technical	0	0	0		
Additional Clinical Services	82	81	-1		
Administrative & Clerical	1195	1088	-107		
Allied Health Professionals	53	52	0		
Healthcare Scientists	160	176	17		
Medical	363	363	0		
Nursing	1040	815	-225		
Vacancy Factor	-27	0	28		
Total	2,865	2,576	-288		

Pay expenditure was 90% of the planned budget. Underspends, particularly in the nursing and administration teams, were due to a mixture of factors including staff turnover, long term sickness, maternity leave, internal secondments of staff moving to VCC temporarily, as well as from longer than usual vacancy periods due to the ongoing challenges being experienced of recruiting staff into roles.

### 20.2.5 Non-Pay Analysis by Category

	2022/23 Outturn				
	£127kı	nore thai	n budget		
	Budget Actual Variance				
NON-PAY CATEGORY	(£'000)	(£'000)	(£'000)		
Clinical/General Services/Supplies	680	720	40		
Maintenance & Repairs	0	1	1		
Transport (inc. patients)	0	11	11		
Printing / Stationary / Postage	0	28	28		
Travel & Subsistence	1	21	20		
Education & Development	0	17	17		
Equipment & Consumables	0	8	8		
Computer Maintenance & Supplies	19	21	3		
Total	700	827	127		

The Division holds modest non-pay budgets, with £473k (68%) of the total in the table above relating to sponsored studies where VUNHST is the lead and funding is distributed to other participating organisations. Key expenditure is on contracts for clinical services such as cardiology and pathology services needed to support research, as well as expenditure to support research staff with training and the running costs of a department with furniture and equipment.

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### 20.2.6 Income Analysis by Category

	2022/23 Outturn					
	£157k less than budget					
	Budget Actual Variance					
INCOME CATEGORY	(£'000)	(£'000)	(£'000)			
HCRW Income	-1,048	-1,098	-50			
Trial Reimbursements	-734	-688	46			
Charitable Income	-931	-691	241			
Innovation Income	-189	-194	-5			
Sponsored Study Income	-473	-473	0			
Other Income	-338	-412	-74			
Total	-3,713	-3,556	157			

Income recovery has proceeded largely to plan through the year except for deliberate reductions, e.g., in charity funding requirements. Trial reimbursements were modestly (£46k) below plan, which had been set a stretch target (increase of £100k) from the previous year. A small excess of income was received from HCRW (£50k), however this related to a change in the funding mechanism for pay awards. Innovation secured significant funding as planned from Welsh Government's RICH Hub funding (£56k), as well as the Cardiff University Accelerate programme (£121k) before it closed, which funded the Rita chatbot programme and the staff who worked on it.

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# **Appendix A: Publications**

## A1. Velindre Cancer Centre

## **BREAST**

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<u>Breast.</u> 2022 Dec;66:69-76.

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Breast. 2022 Aug;64:100-111.

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Craig M, Turner J, Torkington J, **Crosby T.** Faecal immunochemical test: challenges and opportunities for cancer diagnosis in primary care.

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**De'Ath A, Pritchard D, Rees T.** P22 H&I laboratory results and clinical interpretation for a sample with HNA antibodies.

HLA. 2022 99(5):459.

**De'Ath A, Pritchard D, Rees T.** P218 UK NEQAS for H&I schemes to support platelet investigations: An analysis of errors in HPA genotyping and HPA antibody detection and specification.

HLA. 2022 99(5): 549.

**De'Ath A, Pritchard D, Rees T.** P25 Reporting of HLA-DQA and -DPA antibodies in UKNEQAS for H&I scheme 3 – HLA antibody specificity analysis. Int J Immunogenet. 2022 Sep;49:suppl 1, 18-19.

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**De'Ath A, Pritchard D, Rees T.** P66: HNA-3a Antibodies – Laboratory assessment and immunological risk.

British Transplant Society Congress Abstracts. 2022.

**Dyer S, Burrows E, Pritchard D.** P19 False negative DQ2 antibody screen. Int J Immunogenet. 2022 Sep;49:suppl 1, 16.

**Lloyd S, Pritchard D, Rees T.** O13 Surrogate listing of unacceptable antigens to avoid predictable positive crossmatch offers.

Int J Immunogenet. 2022 Sep;49:suppl 1, 7-8.

Reilly-Stitt C, **Cahillane M, Saunders C, George C,** Scorer T, Jennings I, Kitchen S, Walker I. (2023). PO284 NEQAS BC launches external quality assessment for Light Transmission Aggregometry (LTA) using cold-stored platelet concentrates. <u>Haemophilia.</u> 29:suppl 1, 179.

**Ditcham S, Wong L, Underwood D, Massey E,** Evans C.(2022). PO43 Perioperative anaemia—Achieving a national pathway in Wales."

<u>Transfus Med.</u> 2022 32:suppl 2, 42.

**Gregory J.** PO36 The development of a transfusion practitioner (TP) competency framework for Wales.

Transfus Med. 2022 32:suppl 2, 38.

**Jones A,** Goringe A, **Wong L.** PO39 Emergency use of group O red cells in Wales: intervention and outcomes on a national level." <u>Transfus Med.</u> 2022 32:suppl 2, 40.

**McShane K, Burrows E, Pritchard D, Rees T.** P10 Frequency and implication of HNA antibodies in patients on the kidney transplant waiting list.

Int J Immunogenet. 2022 Sep;49:suppl 1, 13.

**Perera K, Harvey C, Jones L, Wilson K, Ghebeh M, Massey E, Rees T, Rayment R, Birchall J.** PO10 A case of severe thrombocytopenia and fragmentation haemolysis post PBSC harvest.

Transfus Med. 2022 32:suppl 2, 24-25...

**Sayle J, Saunders C, George C.** PO11 Platelet function and viability following cold storage within a medical transport box and an extended 14 day shelf life. <u>Transfus Med.</u> 2022 32:suppl 2, 25.

Whittle K. O5 Validation of LABScreen™ Luminex® kits for the detection and characterisation of HLA IgM antibodies.

Int J Immunogenet. 2022 Sep;49:suppl 1, 4-5.

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**Wong L,** Carnegie R and A. Goringe A. PO46 How males are positively supporting the blood supply in Wales.

Transfus Med. 2022 32:suppl 2, 44.

# **Guest Lectureship**

**Nash J.** (2022). The understated importance of extracellular vesicles in cold-stored platelet concentrates, BEST Collaborative LXIII (28th) Scott Murphy Memorial Lecture.

### **Thesis**

**Hughes C.** The effect of cold and frozen storage on the stability of blood group antigens. Cardiff Metropolitan University. 2022.

**Kadelka-Williams L.** The Incidence of Pseudohyperkalaemia in Neonatal Red Cells. <u>Cardiff University.</u> 2022.

Whittle K.(2022). Validation of LABScreen™ Luminex® kits for the detection and characterisation of HLA IgM antibodies. <u>British Society for Histocompatibility and Immunogenetics Diploma</u>. 2022.

**Nash J.** The platelet storage lesion : novel approaches to optimise the function and quality of stored platelet concentrates, Cardiff Metropolitan University. 2022.

**Rooks C.** Development and Evaluation of a Flow Cytometry Screening Test for Fetal Maternal Haemorrhage. <u>Cardiff Metropolitan University.</u> 2022.

**Towell K.** "Loss of Response to Adenosine Diphosphate in Stored Buffy Coat-Derived Platelet Concentrates". <u>Cardiff Metropolitan University.</u> 2022.

**Williams EP.** Mathematical modelling to support blood collection for the Welsh Blood Service, <u>Cardiff University.</u> 2022.

# C1. Nursing & Interdisciplinary Research

#### **Articles**

**Mathlin J,** Courtier N, **Hopkinson J.** Taste changes during radiotherapy for head and neck cancer.

Radiography (Lond). 2023 May 22;29(4):746-751.

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Gale N, **Hopkinson J**, Wasley D, **Byrne A**. The promotion of homebased physical activity for people with lung cancer and cachexia, a qualitative study of healthcare professionals, patients and carers.

J Cancer Surviv. 2023 Jun;17(3):677-685.

Amano K, Arakawa S, **Hopkinson JB,** Baracos VE, Oyamada S, Koshimoto S, Mori N, Ishiki H, Morita T, Takeuchi T, Satomi E. Factors Associated With Practice of Multimodal Care for Cancer Cachexia Among Physicians and Nurses Engaging in Cancer Care. <u>JCO Oncol Pract.</u> 2023 May 15:OP2300043.

Amano K, **Hopkinson J,** Baracos V. Psychological symptoms of illness and emotional distress in advanced cancer cachexia.

Curr Opin Clin Nutr Metab Care. 2022 May 1;25(3):167-172.

Amano K, Koshimoto S, **Hopkinson JB,** Baracos VE, Mori N, Morita T, Oyamada S, Ishiki H, Satomi E, Takeuchi T. Perspectives of Health Care Professionals on Multimodal Interventions for Cancer Cachexia.

Palliat Med Rep. 2022 Dec 2;3(1):244-254.

Amano K, Morita T, Miura T, Mori N, Tatara R, Kessoku T, Matsuda Y, Tagami K, Otani H, Mori M, Taniyama T, Nakajima N, Nakanishi E, Kako J, Ishiki H, Matsuoka H, Satomi E, **Hopkinson JB,** Baracos VE, Miyashita M. Development and validation of questionnaires for eating-related distress among advanced cancer patients and families. <u>J Cachexia Sarcopenia Muscle.</u> 2023 Feb;14(1):310-325.

Ashley L, Surr C, Kelley R, Price M, Griffiths AW, Fowler NR, Giza DE, Neal RD, Martin C, **Hopkinson JB**, O'Donovan A, Dale W, Koczwara B, Spencer K, Wyld L. Cancer care for people with dementia: Literature overview and recommendations for practice and research.

CA Cancer J Clin. 2023 May-Jun;73(3):320-338.

Blum D, Vagnildhaug OM, Stene GB, Maddocks M, Sørensen J, Laird BJA, Prado CM, Skeidsvoll Solheim T, Arends J, **Hopkinson J,** Jones CA, Schlögl M. Top Ten Tips Palliative Care Clinicians Should Know About Cachexia.

J Palliat Med. 2023 Jan 31. doi: 10.1089/jpm.2022.0598. Online ahead of print.

**Hopkinson JB.** Educational needs of self-care in cachectic cancer patients and caregivers.

Curr Opin Oncol. 2023 Jul 1;35(4):254-260.

**Hopkinson J**, Amano K, Baracos V. Eating Issues in Palliative Cancer Patients: a source of cachexia-related distress. 2022. In, Chochinov H, Schulman L. (Eds). Handbook of Psychiatry in Palliative Medicine. 3rd Edition (pp.447-C30.P69).

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**Hopkinson J,** Courtier N, Reagon C, Csontos J, **Pengelly M,** Burbidge B. (In review) The Cancer Memory Mate project: qualitative research investigating the implementation of an innovation to support cancer treatment in people with dementia or mild cognitive impairment.

Int J Nurs Stud. - Advances.

**Hopkinson J.** Strasser F (In press) Psychosocial aspects of nutrition. In: Jatoi A, Kaasa S, Strijbos M. ESMO Handbook of Nutrition and Cancer. 2nd Edition.

**Semedo L, Coles B, Hopkinson J** (In review) The contribution of the family carer to cancer treatment adherence in ambulatory settings: A systematic review and thematic synthesis.

### **Invited Presentations**

**Hopkinson J.** Nurse-led holistic multimodal care for cancer cachexia. 2023. Japanese Society for Palliative Medicine, Kobe, Japan.

**Hopkinson J.** The role of the nurse in meeting the needs of the cachectic cancer patient and their caregivers. 2023.

Keio University School of Nursing. Japan.

**Hopkinson J.** Educational needs of self-care in cachectic cancer patients and caregivers. 2022 Post MASCC meeting. 2022. Belgium School of Oncology, Brussels.

**Hopkinson J.** (June 2022) Education needs and disparities in cancer cachexia care. 2022 MASCC/ISOO Annual Meeting. 2022. Toronto, Canada.

#### <u>Presentations</u>

**Roberts R.** Developing SACT in practice.

SACT Education, UKONS event. 2023.

**Matthams C,** Mundy L. The undergraduate therapeutic radiographers research program Velindre Cancer Centre, developed in collaboration with Cardiff University. Health & Care Research Wales Support & Delivery Conference. 2023.

Hurdley R, **Hopkinson J.** 'Memory Mate' as boundary object in cancer treatment for patients with dementia.

British Sociological Association, South-West Regional Medical Sociology Group Day Event. 2023.

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**Semedo L, Roberts R**, Seddon K, Kumar R, Radley L, **Hopkinson JB.** A protocol for the development of a brief educational intervention to improve nurse knowledge and confidence to educate patients and carers pre-intravenous systemic anti-cancer therapy (SACT) in one cancer centre in Wales (UK).

RCN Education Forum. Birmingham. 2023. Rapid oral presentation - 3 minutes.

**Semedo L, Coles B, Hopkinson JB.** The contribution of the family carer to cancer treatment adherence in ambulatory settings: A systematic review and thematic synthesis. Royal College of Nursing (RCN) International Nursing Research Conference, Cardiff, Wales. 2022.

**Edwards A, Mickleburgh B, Hopkinson J.** The impact of a Lung Cancer Clinical Nurse Specialist role on person-centered and equitable care: a service improvement and evaluation project.

Cardiff FRCR Research, Improvement and Innovation Award Competition. 2022. *Joint 2nd Prize*.

**Williams K.** The role of the AHP in AOS. National AOS Same Day Emergency Care conference. 2022.

### **Posters**

**Mathlin J, Patil M.** (March 2023) Taste change following radiotherapy treatment for head and neck cancer. Cancer Research Symposium, Cardiff University. 2023.

**Semedo L, Roberts R**, Seddon K, Kumar R, Radley L, **Hopkinson JB**. (2023) A protocol for the development of a brief educational intervention to improve nurse knowledge and confidence to educate patients and carers pre-intravenous systemic anti-cancer therapy (SACT) in one cancer centre in Wales (UK). ESCTOX-UKASCC CONFERENCE. Christie Education Centre. The Christie NHS Foundation Trust. Manchester. 2023

**Semedo L, Coles B, Hopkinson JB** (Sep 2022). The contribution of the family carer to cancer treatment adherence in ambulatory settings: A systematic review and thematic synthesis. E-Poster presentation at the Wales Nurse and Allied Health Care Professionals Network Conference. Wales Cancer Research Centre [online]. 2022

**Sherburn J**, **McLeish R**, **Darmanin J**, **Barrett-Lee P**, **Davies R**. Development and usertesting of RITA: An Artificial Intelligence enabled virtual assistant to support patients on their first visit to one Cancer Centre in Wales (UK).

UKONS, Belfast, UK. 2022. *Awarded prize for Poster (2nd Prize)*.

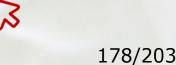
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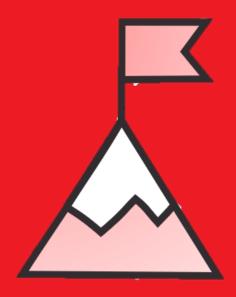
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## Updating the Welsh Blood Service's Research, Development & Innovation Strategy



2/16 1/9/203

# A new WBS Research Development and Innovation Strategy

The WBS performs this strategy

Focus on patient outcomes, and financial governance is robust.

### P Deliverable 1

A written document in English and Welsh

### P Deliverable 2

Key Performance Indicators to evidence the progress of this strategy

### P Deliverable 3

Update of the relevant electronic webpages

### P Deliverable 4

The strategy is approved as an organisational policy on the quality management system. Together with any update of associated documents (e.g. Terms of Reference, standard operating procedures)

#### P Deliverable 5

The KPI statuses are reached and monitored.

### P Deliverable 6

Projects and Delivery plans focused on means to improve the care of patients.

### P Deliverable 7

The strategy's financial impact is assessed, and a financial arrangement and delivery considerations are defined (and appended to the strategy).

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Strategy Development Board



WBS Researchers



Corporate



Supplier

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Strategy Development Board



**WBS** Researchers





Supplier

Stakeholders

**WBS's Researchers Heads of Department Velindre Research Velindre Executives University Investigators Commercial Partners (existing and** unknown) **Commercial suppliers Medical Investigators Public input Donor Expectations Patient Expectations** 

**Research Funders** Welsh Government and Infrastructur Other Blood Services **Unknown and many more...** 

## Initiate the Strategy Development Group Planning

### Stakeholder Engagement & Ideas Capture

**Option Selection** 

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### Scrutiny Approval and Dissemination

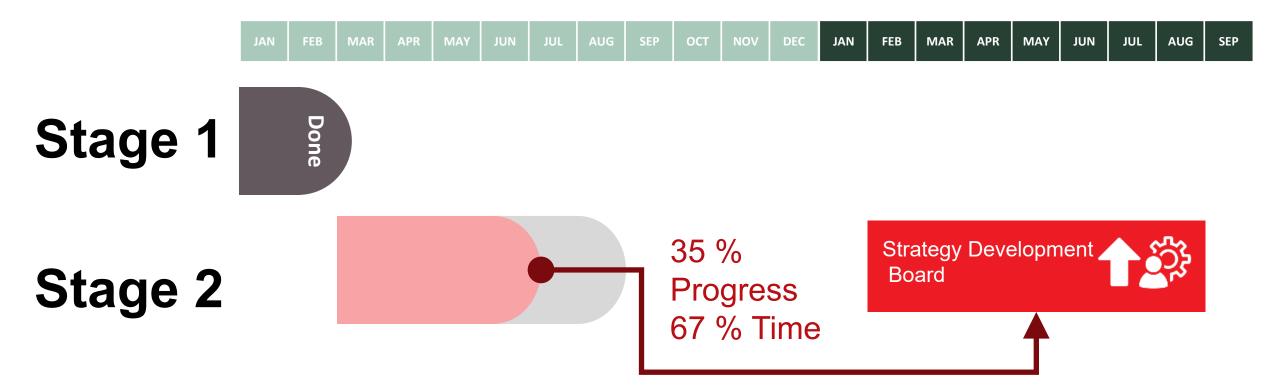


### Scrutiny Approval and Dissemination



### Stakeholder Engagement & Ideas Capture

**Option Selection** 



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### Stage 2



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- Time issue
- Time issue addressed by resource and increasing deadline
- Internal Stakeholder engagement ongoing
- External Stakeholder engagement late summer
- Stage Two completion expected on end of year







Gwasanaeth Gwaed Cymru Welsh Blood Service



#### Minutes of the Velindre University NHS Trust Private Research, Development & Innovation Sub-Committee

**Date** 28/02/2023 **Time** 12:15-1:30pm

**Location** via Microsoft Teams

**Chair** Professor Andrew Westwell, Independent Member

PRESENT		
Professor Andrew Westwell	Independent Member and Research, Development & Innovation Sub-Committee Chair	AW
Vicky Morris	Independent Member	VM
Professor Donna Mead OBE	Trust Chair	DM
ATTENDEES		
Dr Jacinta Abraham	Executive Medical Director and R&D Lead	JA
Libby Batt	Head of Velindre Cancer R&D Strategy	LB
Matthew Bunce	Executive Director of Finance	MB
Rachel Hennessey	Interim Head of Operation & Service Delivery	RH
Professor Jane Hopkinson	Velindre Cancer Centre Professor of Nursing and Interdisciplinary Cancer Care	JH
Dr Edwin Massey	Medical Director, Welsh Blood Service	EM
Jonathan Patmore	RD&I Finance Business Partner	JP
Emma Stephens	Head of Corporate Governance	ES
Sarah Townsend	Head of Research & Development	ST
Nicola Williams	Executive Director of Nursing, AHPs and Health Science	NW
SECRETARIAT		
Sandra Cusack	Business Support Officer	SMC

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1.0	STANDARD BUSINESS	
1.1	<ul> <li>Apologies received from:</li> <li>Eve Gallop-Evans, Clinical Director, Velindre Cancer Services</li> <li>Steve Ham, Chief Executive</li> <li>Paul Wilkins, Interim Director, Velindre Cancer Services</li> </ul>	
1.2	In Attendance  • Kate Cleary, Velindre Futures Cancer Research & Development (R&D) Strategy Project Manager (Item 2.1)	
1.3	Declarations of Interest  Led by Professor Andrew Westwell, Chair of the Research,  Development & Innovation Sub-Committee  No declarations of interest were raised.	
1.4	Review of Action Log Led by Dr Jacinta Abraham, Executive Medical Director and R&D Lead  The Research, Development & Innovation Sub-Committee APPROVED the Action Log and further updates captured in the meeting for the record.	
2.0.0	MAIN AGENDA	
2.1	Cardiff Cancer Research Hub – Name and Branding Led by Libby Batt, Velindre Futures Cancer R&D Strategy Lead & Kate Cleary, Velindre Futures Cancer R&D Strategy Project Manager LB / KC presented the background on the decision of the Name and Branding on the Cardiff Cancer Research Hub (CCRH) was agreed: The Hub comprises three organisations working together with shared identity, so needs a name demonstrating collaboration, being memorable and easily remembered. Needs to be accessible to stakeholders such (i.e. patients; partners). Needs to be confident, focusing on research but also on business as well.  The strapline under the Cardiff Cancer Research Hub, represents a partnership between Velindre, Cardiff and Vale (C&V) and Cardiff University (CU).  Cardiff Cancer Research Hub Timeline • Extensive discussions have taken place between the three partner organisations about the name of the Hub.	

- The Velindre University NHS Trust (VUNHST)/Cardiff and Vale University Health Board (CAVUHB), Bi-lateral Executive Partnership Board, (Cardiff University (CU) attends), recognised Velindre's substantial contribution. That group agreed the strap line will be "A partnership between Velindre, Cardiff & Vale and Cardiff University".
- Recently EMB SHAPE endorsed the direction of travel. The name was confirmed as the Cardiff Cancer Research Hub.

KC presented the process, plans and next steps for the Branding:

#### Next steps – spreading the word

 The Trust Communications team will contribute to Hub generated good news stories, promoting the collaborative work to progress delivery of highly complex and cutting-edge trials, promoting the Hub as an important initiative for the Trust.

DM requested with the branding exercise, it be made clear that Velindre is a prime partner and requested the Sub-Committee have sight of the branding designs prior to other Committes e.g., Executive Management Board (EMB), so there is clear opportunity to have input / comment.

**ACTION:** LB/KC agreed to bring the branding designs to the Research, Development & Innovation Sub-Committee via out of committee or the next formal committee meeting in July.

KC

The Research, Development & Innovation Sub-Committee **DISCUSSED** and **NOTED** the presentation on the Cardiff Cancer Research Hub Branding.

### 2.2 Cardiff Cancer Research Hub - Heads of Terms Led by Sarah Townsend, Head of Research & Development

ST reported on the current status of the CCRH Heads of Terms:

The Heads of Terms document summarises how the three organisations will work together and draws upon the agreed CCRH Proposal to outline:

- The objectives of the collaboration (paragraph 1);
- The physical resources that will be required (paragraph 6);
- The workforce required to set up, develop and operate the hub safely and effectively (paragraph 9).

Further Information is required from the stakeholder organisations in order to finalise the document. This information has been requested and is currently awaited. The document sign off route for each organisation is also being considered.

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	The Research, Development & Innovation Sub-Committee	$\neg$
	DISCUSSED and NOTED the current status of the Heads of Terms as described in the paper and the proposed strategy for review.	
2.3	Oncacare Collaboration Agreement Update Led by Sarah Townsend, Head of Research & Development	
	ST updated the committee on the following:	
	Oncarcare has signed a Master Collaboration Agreement (MCA) with an NHS Foundation Trust in England.	
	The Trust is currently setting up two Oncacare introduced studies, outside the proposed MCA. This helps Oncacare establish credibility in the market place and also tests the model of delivery ahead of a more formal arrangement.	
	Whilst this joint working was welcomed, the Trust cannot access Oncacare's delivery resources without executing the MCA. Oncacare is currently working with six other NHS organisations in the same way.	
	Upon the Trust's execution of the MCA, Oncacare propose to provide funding for key posts via a grant award letter referencing the MCA. An operational management group will be established with Trust and Oncacare membership to oversee this initiative.	
	The Research, Development & Innovation Sub-Committee <b>NOTED</b> the update regarding Oncacare Agreement and the proposed next stages in the process as discussed.	
2.4	BedRace Game Commercialisation Agreement Led by Sarah Townsend, Head of Research & Development	
	During 2022, the Head of Innovation and the game inventor, Dr Clea Atkinson, worked with AgorlP and Focus Games Ltd ("Focus") to obtain the trademark and further develop the game.	
	In the absence of a Head of Innovation, the Head of R&D has taken responsibility, after discussion with the Executive Medical Director, for progressing the game's commercialisation in accordance with the previous Sub-Committee approval, and the Senior Research Contracts Manager has engaged with Dr Atkinson and Focus to negotiate the commercialisation agreement's terms.	
	The Research, Development & Innovation Sub-Committee  DISCUSSED and NOTED the commercialisation agreement between the Trust and Focus Games Ltd., subject to the satisfactory resolution	

	of any issues raised as a result of the receipt of the legal opinion of NWSSP Legal & Risk Services.	
3.0	CONSENT AGENDA	
3.1	Consent – For Approval	
3.1.1	Minutes from the last Private Research, Development & Innovation Committee held on the 15th November 2023 Led by Professor Andrew Westwell (Chair)  The Research, Development & Innovation Sub-Committee REVIEWED and APPROVED the Minutes of the Private Meeting held on the 15th November 2022 as an accurate reflection of proceedings.	
3.2	Consent – For Endorsement	
	No Items for Endorsement.	
3.3	Consent – For Noting	
	No Items for Noting.	
4.0	ANY OTHER BUSINESS	
	No other business was raised.	
5.0	DATE AND TIME OF THE NEXT MEETING	
	The next meeting of the Research Development and Innovation Sub-Committee will be held in person on 4th July 2023 at 4.15pm at Trust Headquarters.	
CLOSE		



### Research, Development & Innovation Sub-Committee

### Highlight Report from the Advancing Radiotherapy Fund (ARF)

DATE OF MEETING	20/07/2023	
PUBLIC OR PRIVATE REPORT	Public	
IF PRIVATE PLEASE INDICATE REASON	Not Applicable - Public Report	
PREPARED BY	Libby Crumpton, Advancing Radiotherapy Fund Project Manager	
PRESENTED BY	Libby Crumpton, Advancing Radiotherapy Fund Project Manager	
EXECUTIVE SPONSOR APPROVED	Jacinta Abraham, Executive Medical Director	
REPORT PURPOSE	FOR NOTING	
COMMITTEE/GROUP WHO HAVE RECEIVED OR CONSIDERED THIS PAPER PRIOR TO		

COMMITTEE/GROUP WHO HAVE RECEIVED OR CONSIDERED THIS PAPER PRIOR TO THIS MEETING		
COMMITTEE OR GROUP DATE OUTCOME		OUTCOME

ACRONYMS		
ARF	Advancing Radiotherapy Fund	
RD&I	Research, Development and Innovation	
PM	Project Manager	
CFC	Charitable Funds Committee	

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#### 1. PURPOSE

- 1.1 This paper had been prepared to provide the RD&I Sub-Committee with details of key issues considered by the Advancing Radiotherapy Fund (ARF) Board at its meeting held on 26<sup>th</sup> April 2023.
- 1.2 Key highlights from the meeting are reported in section 2.
- 1.3 The Committee is requested to **NOTE** the contents of the report and actions being taken.

#### 2. HIGHLIGHT REPORT

ALERT / ESCALATE	There were no items identified for <b>ALERT</b> or <b>ESCALATION</b> to the Research, Development & Innovation Sub-Committee.
ADVISE	<ul> <li>The Trust sponsored PEARL trial has experienced delays which resulted in the need for an extension to the trial agreed by the sponsor and both funders ARF and Cancer Research Wales:         <ul> <li>A lack of capacity in the VCC radiotherapy department to support the study (VCC is the biggest recruiter to the study)</li> <li>COVID pandemic suspending then reducing patient recruitment</li> <li>Lower recruitment at Guys and St Thomas has been lower than anticipated due to competition from the PATHOS study</li> <li>The Principal Investigator (PI) at the Beatson being on long term sick leave, which resulted in considering other candidates for the</li> </ul> </li> </ul>
	sick leave, which resulted in considering other candidates for the role. The PI has since returned to work and the centre is recruiting  - PET replacement program at PETIC has halted recruitment in Velindre Cancer Centre (VCC), Swansea and Bristol over summer months.  Due to the Covid pandemic, saliva swabs were unable to be taken forming the basis of PhD work within the initial proposal. The trial team are requesting the unused funds are used to further support PEARL trial team costs, to ensure efficient completion of the trial.

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	Update from <b>PATHOS</b> Clinical Fellow / lead to be obtained on the status of this trial.
	Due to the Advancing Radiotherapy Fund (ARF) Research and Development (R&D) Lead sessions being vacant, and a period of leave for the ARF PM, project updates were paused. This has meant no formal updates to RD&I Sub Committee. The ARF Project Administrator Hannah Fox has maintained links with projects and their leads, and the ARF Board. Project meetings will be resumed with leads / project teams, following the appointment of the R&D Lead and the PM returning.
ASSURE	<ul> <li>Appendix A shows projects updates submitted to the ARF Board in the April 2023 meeting. Points of note: <ul> <li>Dr Kieran Foley, Consultant Radiologist received confirmation that an application to the National Institute for Health and Care Research (NIHR) for a £250,00 grant (Research for Patient Benefit, RfPB) has been successful. This is in collaboration with Southampton, and Prof Tim Underwood, who is co-CI with Dr Foley: Understanding the variation of modern endoscopic ultrasound use in patients with oesophageal cancer (VALUE): a multi-methods study.</li> <li>Patient recruitment for EHRT only an EHRT and SpaceOAR completed. EHRT patients have completed two follow up, data being reviewed. EHRT business case developed for submission to commissioners this year.</li> <li>Funding for the x2 research radiographer roles has ended. An end of project report will be requested. VCC finance colleagues have confirmed the roles have formed part of the radiotherapy wworkplan / budget.</li> </ul> </li> </ul>
	Dr James Powell was appointed R&D Lead for the ARF, commencing this role in autumn 2022 replacing Prof. Mererid Evans who had previously stepped down.  Elizabeth Crumpton (Libby), ARF Project Manager (PM) returned from a period
INFORM	of maternity leave in May 2023. There was not cover for the PM role during this period.  Both ARF Project Manager and Project Administrator roles, have been
	extended to March 2024.

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As a reminder, an ARF Strategy (2022-2025) was developed by Prof. Evans and shared with members of the RD&I community in 2022. The ARF Board led a grant submission to The Moondance Foundation, for £1.5 million over a five-year period, £300,000 per year. This application was successful and has since been match funded by the Trust Charitable Funds Committee (CFC). Driving innovation in radiotherapy treatment to deliver better outcomes and improve quality of life and patient experience, whilst providing equitable care to cancer patients across Wales, are key objectives of the Advancing Radiotherapy Cymru (ARC) Academy. An all-Wales programme with ambitions to deliver best practice in radiotherapy by supporting clinical service developments, workforce recruitment, development and training, and research for the benefit of all patients receiving radiotherapy in Wales. Governance and the structure of the ARC are to be determined, but will include updates where appropriate to RD&I. YES - (Please Include Appendix Title in Box Below) Advancing Radiotherapy Fund: Project Updates \*some amendments have been made, since these were submitted to the ARF **APPENDICES** Board in April 2023. **ARF** Project Highlight Report Ap

### Researchers in Scotland, Wales and Northern Ireland to access further NIHR research funding

This is a significant expansion of NIHR research funding into devolved nations.

Please note this recent announcement from NIHR:

 $\frac{https://www.nihr.ac.uk/news/researchers-in-scotland-wales-and-northern-ireland-to-access-further-nihr-research-funding/33914}{nihr-research-funding/33914}$ 

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