

# NIHR HealthTech Research Centre in Devices, Digital and Robotics – Patient and Public Involvement and Engagement (PPIE) Strategy 2024-2029

# Background

This strategy outlines the National Institute for Health and Care Research (NIHR) HealthTech Research Centre in Devices, digital and robotics (HRC-DDR) vision and priorities for working with patients, public and community partners. Over the next 5 years we will build upon and further enhance the PPIE base developed over recent years as the NIHR Trauma Management MedTech Co-operative (MIC). As an HRC we will widen our remit beyond trauma and this strategy lays out our plans to broaden our involvement, engagement and participation activities to support our research themes of medical devices, digital and data technologies and robotics and autonomous systems. We have deliberately chosen for PPIE not to be its own distinct theme within the HRC, but instead PPIE will be core to the programme and embedded within our research themes.

Our strategy is aligned to national policies and strategies including (but not limited to) <u>NIHR</u> <u>Going the Extra Mile Report (2015)</u>, <u>Best Research for Best Health: The Next Chapter (June</u> 2021), <u>NIHR Strategic Commitments for Public Partnerships 2025-2030</u> and the <u>UK Standards</u> <u>for Involvement</u>.

Working with patients and the public through meaningful involvement and engagement will help to ensure that new health technologies meet the needs of patients, clinical staff and society. Technology must be accessible and acceptable and there is an opportunity in the development of new health technologies to tackle health inequalities. The recent Equity in Medical Devices independent review highlighted the health impact of potential ethnic and other biases in medical devices and the HRC will follow recommendations to develop more equitable technologies. We will work in partnership with patients, the public and community partners from the earliest point possible in the product development pathway and build mutually beneficial relationships to develop and test technologies to meet unmet clinical needs.

### Who we are

The NIHR HRC-DDR is one of fourteen HealthTech Research Centres (HRCs) in the UK funded by the <u>National Institute for Health and Care Research</u> and is hosted by University Hospitals Birmingham NHS Foundation Trust.

The HRCs are funded to support safe, effective and efficient translation of new healthcare technologies into routine care for NHS patients and follow-on social care. The NIHR HRC-DDR will provide a national service supporting partners through the innovation ecosystem linking with expert academics and clinicians within our partner organisations and infrastructures, generating evidence to support uptake and adoption.

The NIHR HRC-DDR will play a key role in identifying unmet needs, supporting prioritised technologies, and generating evidence across Technology Readiness Levels (TRLs) to support the evidence required for regulatory approval and adoption.

Our core themes of Medical Devices, Digital & Data, Robots & Autonomous Systems, and crosscutting themes of Human Factors & Usability, Health Economics & Value Proposition, and Regulations, cover the major areas of unmet need in the translation of health and social care technologies.

# How this strategy was developed

This strategy was co-produced by the HRC Core team/researchers and the patients and public throughout the summer of 2024. Our approach is based on the values of co-production: sharing power, including all perspectives, respecting values and knowledge, working for mutual benefit and building and maintaining relationships.

Three interactive workshops were held exploring the key values our PPIE strategy should be built upon and the definitions of *Involvement* and *Engagement* to be used. During the sessions we used a variety of tools and activities to delve into the original PPIE objectives set at the HRC application stage considering if these were still fit for purpose and exploring what success for each objective would like to develop our strategy. Detailed notes of the workshops were taken to capture discussions and decisions.

An initial draft of the strategy was formed from the discussions and outputs of the workshops. This was shared with all stakeholders involved and underwent a process of refinement to arrive at the final strategy.

We offered engagement in the process via a variety of methods, for example emails, in-person or virtual 1:1 sessions and workshops. All patient/public contributors were offered honoraria in line with NIHR guidance and were fully aware of the PPIE and EDI sections of the original HRC application.

University Hospitals Birmingham NHS Foundation Trust (UHB) hosts a number of NIHR infrastructures (NIHR Birmingham BRC, NIHR Brimingham CRF, NIHR West Midlands Patient Safety Research Collaboration). This strategy is complementary and aligned to the existing strategies for these infrastructures to ensure sustained and impactful PPIE across our region.

# Our definitions

- **Involvement**: Research being carried out 'with' or 'by' members of the public rather than 'to', 'about' or 'for' them (from NIHR)
- **Engagement**: The myriad of ways in which the activity and benefits of research can be shared with the public. Engagement is by definition a two-way process, involving interaction and listening, with the goal of generating mutual benefit (from <u>National</u> <u>Coordinating Centre for Public Engagement</u>).
- **Public contributor**: people (including carers) with lived experiences of health conditions and care systems who are actively involved in research.

# Purpose

This strategy expresses the values of those involved in its development and will form the foundations of our PPIE activities. At the start of this process we explored what is most important to our patients and public partners when considering PPIE in research resulting in a list of 14 values. A further exercise to consider the top 3 values for each individual was carried out; the following values were identified as the most important to patient and public members who participated in the development of this strategy:

- **Accessible/Inclusive** respecting everyone and providing equal access to opportunities to take part in research
- Trust an open, honest, transparent and respectful partnership
- **Mutual Benefit** patients and public working in partnership with researchers and industry partners through arrangements that benefit all
- **Diversity/Representation** differences in race, ethnicity, gender, age, religion, culture, and socioeconomic status. It encourages respect and support where everyone's unique qualities are appreciated.
- **Feeling Listened To** Patients and public see and feel the impact of their contributions through regular feedback

Through this strategy we aim to deliver an **accessible and inclusive** package of PPIE where patients and the public shape our research and decision-making, through **mutually beneficial relationships** building **trust** with the **diverse** community we serve.

# Our strategic aims

- 1. Develop a sustainable, diverse PPIE community who feel respected, supported and confident to shape our research and decision-making
- 2. Establish a HRC PPIE Community that is representative of the population we serve, respecting and championing equality, diversity and inclusion
- 3. Work in partnership with patients, the public and local communities to deliver effective and inclusive communications and engagement activities
- 4. Build capacity and capability for PPIE within HealthTech Research
- 5. Co-develop plans to capture and share the impact of our PPIE
- 6. Promote equality in research leadership and governance structures

# Our objectives

Each Strategic Aim has several objectives. Our objectives describe how we will achieve our strategic aims for involving and engaging the public in the HRC. We have aligned our objectives to the UK Standards for Public Involvement.

Aim	Aim 1: Develop a sustainable, diverse PPIE community who feel respected, supported and			
con	fident to sha	ape our research a	and decision-mak	cing
Involvement aim aligned to • Seek to remov				
Obje	ectives		Time period	Monitored by
1.1	support ne contributor	learning and eds of public rs when they first HR HRC-DDR annually	Short	Responsible: HRC PPIE Manager HRC PPIE Managers to complete, document and annually review for all public contributors
1.2	preference public cont including c tools for en research te to public co	ation needs and s of individual tributors, o-developing acouraging eams to feedback ontributors	Short/Medium	Responsible: HRC PPIE Manager HRC PPIE Manager to support group members individually, tailoring communication methods/materials/training to support their individual needs. Led by the HRC PPIE manager, working with HRC Core team and PPIE group members, tools will be developed to ensure clear and effective communication and feedback between HRC industry partners and community partners.
1.3	from public about their	ddress feedback contributors experiences of ved with the ODR	Medium	Responsible: HRC PPIE Manager & HRC Programme Manager Complete annual evaluation of PPIE within the HRC Programme. Complete individual project evaluations of the impact of PPIE. Make use of existing tools and methods e.g. Cube Framework, GRIPP checklist, Public Involvement Impact Assessment Framework, Impact Log. Design and implement a feedback questionnaire for public contributors to complete at the end of meetings/activities/event. Adapt approaches based on feedback to ensure continuous improvement.
1.4	and recogn	tems of reward ition are efficient and	Short/Medium/ Long	Responsible: HRC PPIE Manager & HRC Programme Manager

	consistent working	Implement local processes to pay public
	collaboratively	partners for their contributions and
		associated expenses. Align rates and
		process to national guidelines and other
		UHB hosted infrastructure to ensure
		consistency and collaboration locally.

	Aim 2: Establish a HRC PPIE Community that is representative of the population we serve,				
	respecting and championing equality, diversity and inclusion				
for F Invo	Involvementand groups, aaim aligned to• Research to b		unities: ment partnerships are accessible and include a range of people s informed by community and research needs. e informed by a diversity of public experience and insight, so o treatments and services which reflect these needs.		
Obje	ectives		Time period	Monitored by	
2.1	Have clear selection p public cont developing implement transparen	ing open, t and inclusive s for all new lvement	Short	Responsible: HRC PPIE Manager Open, transparent and inclusive procedures developed and implemented. New members recruited to a range of programme and project specific roles.	
2.2	involving po underserve	engaging and eople from ed communities reaching out to	Short/Medium	Responsible: HRC PPIE Manager and Research Inclusion Manager Work collaboratively with other local infrastructures to engage with local communities to understand barriers. Continue interactions with community groups to remove barriers and sustain new and diverse patient/community partnerships.	
2.3	demograph protected o information specific en characteris underrepre PPIE group	for collating nics and characteristic n to allow richment for stics which are esented in our	Short/Medium	Responsible: HRC PPIE Manager and HRC Programme Manager Process for collecting data developed and implemented working with PPIE group members. Target recruitment strategies to engage with underrepresented groups. Invest in community engagement initiatives building relations with underserved communities to promote diversity and inclusivity among our public contributors	
2.4	Collaborat regional an partners to opportunit involvemer	d national share	Medium	Responsible: HRC PPIE Manager Opportunities advertised through regional and national networks using a range of inclusive and accessible methods. Diversity	

	range of communication methods and appealing to different communities		in participants recruited into Involvement and engagement opportunities.
2.5	Develop and embed consistent support arrangements for diverse public contributors	Short/Medium/ Long	Responsible: HRC PPIE Manager HRC PPIE Manager to support group members individually, tailoring communication methods/materials/training to support their individual needs and remove barriers.

	Aim 3: Work in partnership with patients, the public and local communities to deliver				
	effective and inclusive communications and engagement activities				
UK Standards for Public Involvement aim aligned to		<ul> <li>Communication:</li> <li>Use plain language for well-timed and relevant communications, as part of involvement plans and activities.</li> <li>Communicate with a wider audience about public involvement and research, using a broad range of approaches that are accessible and appealing.</li> </ul>			
Obie	ctives	uonig u brouu	Time period	Monitored by	
3.1	Co-develo communi PPIE, pror and under group to in researche patients, o	cations plan for noting awareness rstanding of the ndustry, ers, clinicians, community and other key	Short	Responsible: HRC PPIE Manager Communications plan for PPIE co- developed and implemented. This will be a live document that will continually be updated and refined based on learning, responding to stakeholder needs.	
3.2	and acces communi	ge of inclusive ssible cation methods ocal communities	Short/Medium/ Long	Responsible: HRC PPIE Manager and Research Inclusion Manager HRC will communicate with communities in a range of ways driven by the needs of the groups. E.g. variety of venue, times, face to face, virtual, email, written. Through community outreach activities and initiatives, barriers to engagement removed where possible.	
3.3	with peop communi significan adverse s	ties who are most tly impacted by ocial ants of health	Medium	Responsible: HRC PPIE Manager, Research Inclusion Manager and HRC Programme Manager Working across local and national PPIE-led structures, deliver inclusive community outreach events in underrepresented communities to raise the profile of research and encourage participation.	



			Build sustained, mutually beneficial
			relationships with community groups.
3.4	Work with regional and	Medium/Long	Responsible: HRC PPIE Manager and
	community partners to		Research Inclusion Manager
	explore opportunities for		
	joint engagement activities		Inclusive community outreach events
	and research showcase		delivered by the HRC and working
	events with communities		collaboratively with other local and national
			infrastructures/organisations.

Aim	4: Build capacity and ca	pability for PPIE within	n HealthTech Research
UKS	Standards Working To	gether:	
for F	Public • Work tog	gether in a way that val	ues all contributions, and that builds and
Invo	lvement sustains	mutually respectful ar	nd productive relationships.
aim	aligned to 🛛 🔹 Public in	volvement in research	is better when people work together towards
	a comm	on purpose, and differe	ent perspectives are respected.
Obje	ectives	Time period	Monitored by
4.1	Ensure researchers and	Short/Medium	Responsible: HRC PPIE Manager and HRC
	industry partners are		Programme Manager
	trained on all aspects of		
	PPIE to ensure it is		Develop and deliver training/supporting
	embedded within every		materials for researchers and industry.
	project.		
			Ensure all collaborators undertake training
			at the start of a new project. Plan PPIE
			activities for the project setting deadlines
			and milestones. Schedule dates for activity
			and feedback sessions for the full project
			lifecycle.
4.2	Strengthen and grow	Medium	Responsible: HRC PPIE Manager, Research
	mutually beneficial		Inclusion Manager, HRC Programme
	partnerships between		Manager
	industry, researchers and	t b	
	community partners		Plan PPIE activities for the project setting
	through continuous		deadlines and milestones. Schedule dates
	collaboration through a		for activity and feedback sessions for the
	whole project lifecycle.		full project lifecycle. Ensure regular, open,
			transparent communication between
			industry/researchers and public
			contributors.
4.2	Improvo updovoto odiust	f Modium /long	Peepeneikles HPC DDIE Managar
4.3	Improve understanding of the purpose	of Medium/Long	Responsible: HRC PPIE Manager
	the purpose, responsibilities and		Develop and deliver training to all staff on
	expectations related to F	DIE	Develop and deliver training to all staff on joining the HRC.
	for all HRC stakeholders		
	encouraging and innovat		Develop and deliver training/supporting
	best PPIE practice	115	materials for researchers and industry
			partners.
			partiters.

Host industry focussed events for HRC collaborators to improve understanding and purpose of PPIE.
Work with the PPIE group and existing industry partners to develop materials and deliver activities.

Aim	5: Co-develop plans to captu	re and share the i	impact of our PPIE	
-	UK Standards Impact:			
for P	• Seek improvement by identifying and sharing the difference that public			
Invol	vement involvement m	nakes to research.		
aim a	aligned to • Understand th	e changes, benefi	ts and learning gained from the insights and	
experiences of		f patients, carers a	nd the public.	
Obje	ctives	Time period	Monitored by	
5.1	Report, share and	Short/Medium/	Responsible: HRC Director, PPIE Manager &	
	celebrate PPIE activities	Long	HRC Prgramme Manager	
	regularly and on an annual			
	basis		Report HRC PPIE Strategy progress to HRC	
			Executive Board, HRC External Advisory	
			Group, UHB Board of Directors, BHP Board	
			of Directors and NIHR through usual annual	
			reporting routes.	
			Hold annual HRC PPIE Celebration event	
			showcasing the work of the centre and	
			advertising opportunities to get involved.	
			Publish case studies in a range of inclusive	
			and accessible formats through a variety of	
			routes e.g. HRC newsletter, HRC website,	
			social media.	
			Attend local and national events (face to	
			face and virtual) to showcase our work.	
5.2	Work with public	Medium	Responsible: PPIE Manager & Theme Leads	
	contributors to evaluate the			
	activity, benefits and		Make use of existing tools and methods to	
	challenges of PPIE in health		evaluate activity at both programme and	
	tech research, including		project level e.g. Cube Framework, GRIPP	
	the impact on public		checklist, Public Involvement Impact	
	contributors and		Assessment Framework, Impact Log.	
	researchers			
			Develop and implement action plans to	
			address challenges identified specifically	
			for HealthTech.	
5.3	Ensure researchers and	Medium	Responsible: PPIE Manager & Theme Leads	
	industry partners who			
	undertake research provide			

	feedback to public contributors on their contributions		At the start of projects schedule key dates for PPIE activities and feedback sessions for the full project lifecycle.
			Ensure people who participated in research receive feedback on projects so they can see their impact.
			Feedback provided using a variety of accessible and inclusive methods/formats.
5.4	Share PPIE best practice and learning regionally and nationally	Short/Medium/ Long	Responsible: PPIE Manager & HRC Prgramme Manager
			Collaborate regionally and nationally contributing to networks/initiatives to share learning from HRC PPIE activities.
			Implement new initiatives/methods learning from partners.

Aim	Aim 6: Promote equality in research leadership and governance structures			
UK S	Standards	Governance:		
for F	Public	<ul> <li>Involve the pr</li> </ul>	ublic in research m	nanagement, regulation, leadership and
Invo	lvement	decision mak	ing.	
aim	aligned to	Public involve	ement in research	governance can help research be more
		transparent a	nd gain public tru	st.
Obje	ectives		Time period	Monitored by
6.1	-	volvement of	Short	Responsible: HRC Director
	-	ributors in the		
	-	of the NIHR		Appoint public members to HRC
	-	programme and		Management Group and HRC Executive
	-	rojects within		Group ensuring individuals are supported in
	the portfolio	0		their role.
				Where people and expressions exposint
				Where possible and appropriate, appoint public members as co-applicants on
				research grant applications and continue
				involvement through project management
				and steering committee participation.
6.2	Monitor and	review this	Medium/Long	Responsible: HRC PPIE Manager
0.2		gy and plans	i isaianii Eorig	
	regularly			Progress against strategy to be discussed at
	. g			PPIE Group and HRC Management Group
				meetings. Update reports to be provided for
				HRC Executive Board Meetings.

# Programme of projects and activities

We will use this strategy to inform our activities for each year (see objectives and monitoring information).

In the first 12 months the following milestones will be met to build a strong PPIE base for the HRC:

- Appointment of HRC PPIE Manager
- Core HRC PPIE Community established
- Induction and training programme for new members developed and implemented
- Opportunities to become part of the HRC PPIE Community disseminated through accessible and inclusive methods
- Regular bi-monthly meetings (face to face and virtual) established with group terms of reference agreed
- Public members recruited to HRC Management Group and HRC Executive Board
- Communication plan for PPIE co-developed

Following set-up of PPIE structures and processes, a plan of action for the next 12 months will be developed to support the delivery of the objectives within our strategic aims.

At the individual project level, a plan for PPIE for the full project lifecycle will be co-developed with industry, researchers and public contributors. Deadlines and milestones will be set with dates for activity and feedback sessions scheduled. This will ensure regular, open, transparent communication between industry/researchers and the patients and public.

To disseminate the work of the centre and advertise opportunities to get involved an annual HRC PPIE Celebration event will be held. We will also publish case studies in a range of inclusive and accessible formats through a variety of routes e.g. HRC newsletter, HRC website, social media. We will collaborate regionally and nationally to share and learn, continually improve and remain responsive to changes in the innovation landscape.

### Resources

To demonstrate our commitment to PPIE and ensure it is embedded within the HRC, a full time PPIE Manager will be appointed to operationalise this strategy.

Funds are also available to support the range of innovative, accessible and inclusive activities/initiatives required to deliver this strategy (includes but not limited to travel reimbursement, venue hire and refreshments, office consumables and printing, event planning and delivery).

In line with the NIHR strategic commitments for public partnerships 2025-2030 the HRC will ensure all participants are recognised and rewarded for their contributions.

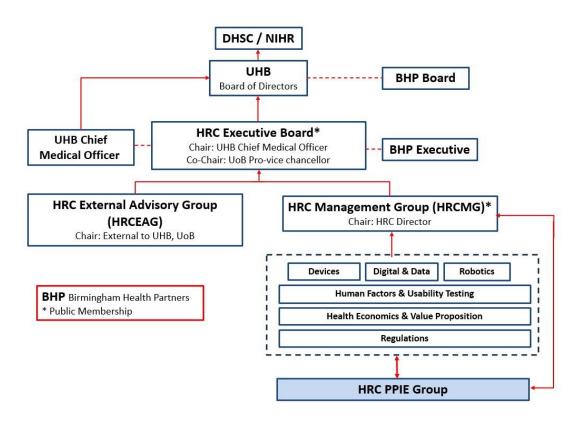
# Partners and collaborators

- NIHR Birmingham BRC
- NIHR Birmingham CRF
- NIHR Midlands Patient Safety Research Collaboration
- NIHR ARC West Midlands
- West Midlands Secure Data Environment for Research
- West Midlands regional network for PPIE: Public Involvement for Lay Accountability in Research (PILAR network)
- School for Public Health Strategy (PHRESH in the West Midlands)
- NIHR West Midlands Community Engagement Hub

- 1-NIHR (all regional NIHR infrastructure)
- Health Innovation West Midlands
- UHB/University of Birmingham Patient and Public Involvement in Research Network
- National NIHR HRC Network

# Accountability, monitoring and reporting

Progress against objectives outlined within this strategy will be monitored by the NIHR HRC-DDR PPIE Group. Quarterly updates will be reported to the NIHR HRC-DDR Management Group (chaired by the NIHR HRC-DDR Director, with public membership). The Management Group will be accountable to the NIHR HRC-DDR Executive Board (with public membership).



We will use the strategy to inform our activities for each year, and these will be reported in the Annual Report submitted to NIHR.

The HRC PPIE Manager will be responsible for the day-to-day operational delivery of the strategy, supported by the NIHR HRC-DDR Director, Theme Leads and Programme Management Team.

# **Reporting impact**

The HRC-DDR are committed to monitoring and reporting the changes, benefits and learning gained from the insights and experiences of all involved in health tech research. We will make use of existing tools and methods to evaluate PPIE activity at both programme and project level, from the perspectives of the patients, public, researchers and industry partners. Tools include but are not limited to the Cube Framework, GRIPP checklist, Public Involvement Impact

Assessment Framework, use of an Impact Log. We will ensure people who participated in research receive feedback on projects so they can see their impact.

The HRC will share best practice and learn from others by attending and presenting at regional and national conferences and events, publishing case studies and good news stories through a variety of inclusive and accessible channels.

# Acknowledgements

We wish to thank all who have given their time and expertise to support the development of this strategy. Our thanks extend to all of our public contributors – your insight, enthusiasm and support is greatly appreciated.