UKRI Population Health Improvement webinar

27 January 2023, 2-3pm

Agenda:

• Prof Nick Wareham, University of Cambridge
• Dr Andrew Crawford, MRC
• Prof Louise Dye, University of Leeds
• Q&A Panel
  • Prof Nick Wareham, Prof Louise Dye, Dr Philippa Hemmings (EPSRC), Dr Naomi Beaumont (ESRC) and Dr Catherine Moody (MRC)

Please post your questions in the Q&A section

Further information can be requested from phiclusters@ukri.org
Securing better health, ageing and wellbeing

Advancing people’s health and promoting wellbeing to maintain prosperous, productive and resilient communities throughout the UK and globally, supporting the UK Life Sciences Vision by addressing challenges around ageing, living with multiple conditions, mental health and health inequalities

Population Health Improvement/
health inequalities
• Challenge-led network and capacity building to progress the development of systems-level interventions
• Centre for climate change and health

Digital Health
• Underpinning support (HDRUK, Digital Health Hubs)
• Functional genomics initiative to link population genetics (GWAS) and mechanistic research to progress identification of novel targets

Ageing throughout life
Interdisciplinary research proposals, co-ordination, and models to advance understanding of intrinsic and extrinsic factors that influence ageing trajectories and advance development of interventions that promote healthy ageing and resilience to multiple diseases

Mental Health
• New mental health platform to co-coordinate cohort investments and enhance and broaden phenotyping to speed up discovery of markers and targets for detection and intervention

Health and wellbeing for all

Industry-led innovation

Reduced health inequalities

Population health improvement

Ageing across the life course

Digital Health

Mental Health

Improved productivity & resilience

Increased healthspan
Population health improvement and high risk individual-level approaches
The agency of different interventions and inequality

Source: Adams et al, PLOS Med 2016
The agency of different interventions and inequality

Degree of targeting of intervention according to individuals' baseline risk of disease

Population

High agency

-'Fat camps' for obese children, restricting dietary intake
-Planning restrictions on hot food take-away proliferation
-Healthier frying practices in hot food takeaways
-Fortification of flour with folic acid
-Artificial fluoridation of tap water

Low agency

Weight loss pharmacotherapy & surgery
-Vouchers for free fruit and veg for low income parents
-New supermarket in previously underserved area
-Decreasing portion sizes of convenience foods
-School food & nutrient standards

Dietary counselling for patients with type 1 diabetes
-Referral to commercial weight loss programmes
-Cooking classes for older, single men
-Nutrition education in pre-schools in deprived areas
-Social marketing & mass media campaigns
-Front-of-pack nutrition labelling

Source: Adams et al, PLOS Med 2016
Different pathways for intervention development and evaluation

Research driving policy: ‘evidence-based practice’

- Intervention development
- Feasibility and pilot trials
- Definitive randomised controlled trial
- Evidence synthesis
- Policy action

Observed evidence

Political and economic context

Source: Ogilvie et al, JECH 2020
Integrated research for Population Health Improvement

- Network of clusters
- Data landscape review
- Training opportunities
- Evidence synthesis
- Intervention development

Methods for identifying potential population-level interventions
- Natural experiments
- Public Health Modelling

Better data
- Determinants of health
  - surveys, routine data, cohorts
  - consumer data
  - natural experiments

Underpinning population health research
- Evidence synthesis and Public Health Modelling
- Potential population-level interventions
- Intervention
- Evaluation
- Population Health Improvement

Built environment
- Behavioural & cultural insights
- Health inequalities
- Climate change

Methods development for evidence synthesis
Timeline

December
Pre-announcement

27 January
Webinar

24 March
Networking event

18 April
Networking event

4 May
Networking event

July
Call closes

October
Panel meeting

April 2024
Awards start
PHI Network of Challenge-led Clusters
Framing Transforming UK Food Systems activities by the four ‘Dimbleby’ themes
Things to consider

- Need common language & understanding of each others methods and approaches
- Innovative training within clusters and across clusters e.g. systems thinking methods
- Doesn’t need to be conventional training - can be “outside the box”
- Can cost for methodologists/specific expertise
- Looking for novel groupings and innovation e.g. ME/CFS
- Early- and mid-career researchers are encouraged within each cluster - develop and ensure capacity building
- Encourage external partners e.g. local authorities, other funders, companies & other partners
Getting started

- UKRI will support an online platform to encourage networking of those wishing to form/join a cluster
  - Add bullets about your expertise and interests in relation to this call
- List of participants registered today and at upcoming workshops will be made available
- Try to coalesce your cluster around strengths and expertise – types of problems and interests
- Can then have online open discussion and/or then take development of cluster into own space and organise own calls/invite people
- Be open - be inclusive – form new grouping to really shape PHI via this exciting initiative
Questions?

More information contact: phiclusters@ukri.org