

Research opportunities and lessons learned from the Nutrition BRU

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Bristol nutrition BRU vision:

"Translate causal associations in nutrition drawn from population and clinical studies into interventions for people with conditions related to (or compromised by) poor or sub-optimal nutrition"



- Opened 1st April 2012
- 5 year award of £4.5 million
- Core theme
 - Methodology
 - Translation and transfer of ideas
- Four specific themes
 - Pre and post surgical feeding
 - Nutrition in men with prostate cancer
 - Optimising nutrition in children with chronic disease
 - Sedentary behaviour in people with diabetes



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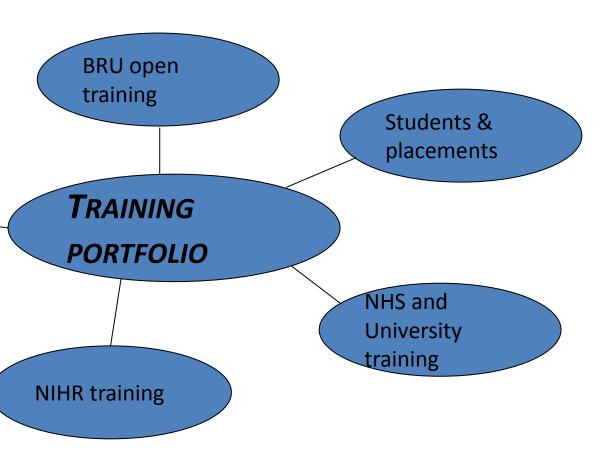




Training

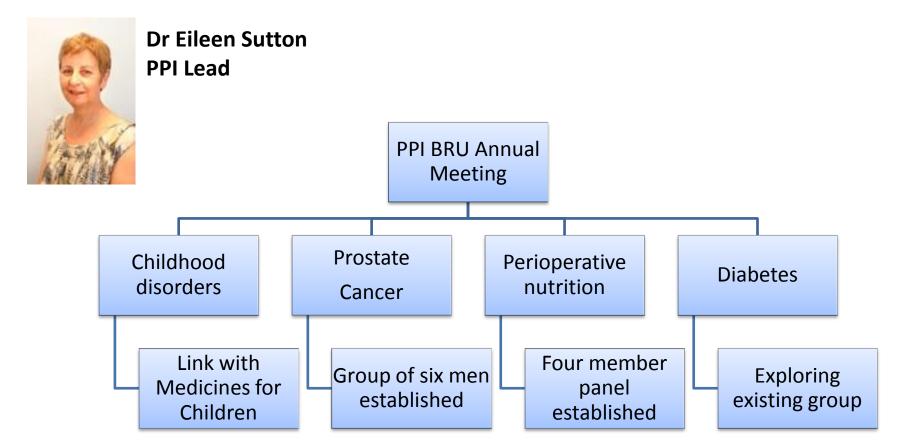
Dr Charlotte Atkinson Training Lead

BRU internal training & staff review





Patient and public involvement



Public Engagement





Ms Rachel Perry
Public engagement lead

- Engagement policy
- Supporting events
- School project on childhood asthma







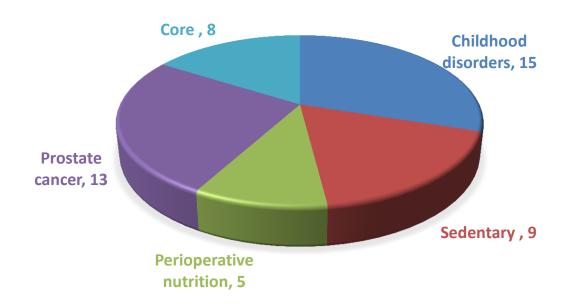
Clinical trials day - May 2014

Green Man festival - August 2014



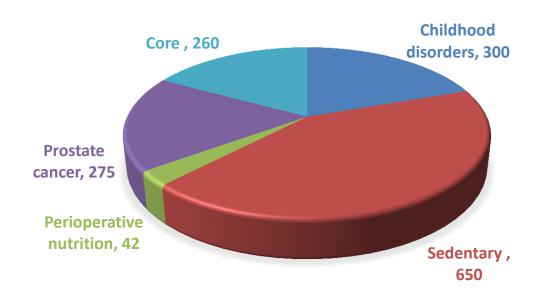
Projects by theme

50 Studies open (31 Studies completed)





Recruitment by theme 1527 Participants recruited





Systematic reviews



- Early enteral nutrition
 - No benefit in keeping people nil by mouth
 - Possible benefit on complications and length of hospital stay





- Chewing gum and postoperative recovery
 - 81 trials, 9072 study participants
 - Some evidence for a benefit of chewing gum on time to first bowel movement and flatus





Qualitative studies

- Perioperative nutrition experiences
- 16 people post-colorectal surgery
- Semi-structured interviews
- Information provision is poor
- Range of food available



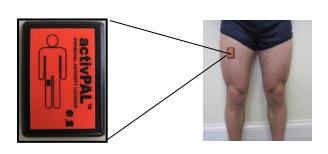


Describing sedentary behaviour

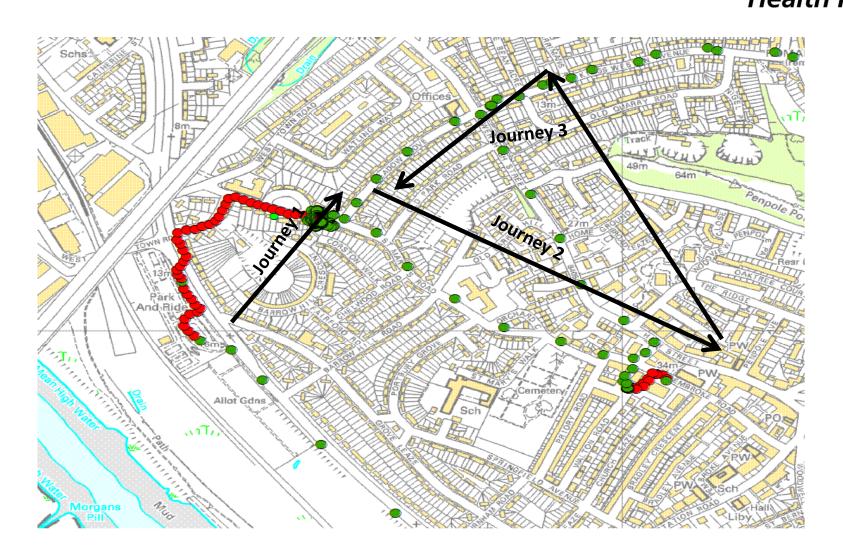
- Observational study of people with newly diagnosed type 2 diabetes
 - Sedentary time and metabolic outcomes
 - Dietary behaviours and sedentary time
 - Contribution of time outdoors and active travel to activity













Interrupting sedentary behaviour

- Intervention in middle aged adults
- Randomised three-treatment crossover trial
 - Sitting
 - Walking
 - Standing
- Outcome: interstitial glucose concentration



Grant funding



- CRUK/BUPA Foundation Cancer prevention in hard to reach groups £15,000
- NIHR Clinical Academic Training Internship-£10,000
- NIHR RCF NIHR grant application for Cystic Fibrosis-Related Diabetes- £20,000
- NIHR Rare Diseases TRC Fellowship PhD Grant of £228,362
- NIHR Rare Disease Type 2 diabetes in children. 2013-2015 £195,000 + £199,885
- NIHR EME (CARDIOMAN) £440,000
- NIHR RCF Dietary intake & PA in men on ADT- £12,000
- Elizabeth Blackwell Institute Prehabilitation in Cancer- £8,207
- NIHR Programme Development Grant with University of Sheffield-£24,554
- Elizabeth Blackwell Institute "Crowd-sourcing of dietary data for nutritional assessment" £42, 883
- Elizabeth Blackwell Clinical Primer Effects of change in rate of eating on neural food responses and memory for food. £56,595
- CRUK Population Programme Award £4,154,270.00
- NIHR Public Health Employer-led walk to work intervention £1,272,395.
- NIHR Public Health Active design and walking and cycling £618,065







Prof Julian Hamilton-Shield Deputy Director and industry Lead

- -Systematic Reviews on artificial sweeteners and obesity in press.
- Training opportunities internship programme with Nutricia.
- Research seminars lectures as part of seminar series.
- Evaluation product developed by Genotek and the Wellpoint health kiosks.
- Testing new medical devices with Cambridge Temperature Concepts.
- Feasiblity Maltron Paediatric body composition and fluid status
 AmBeR- breath ammonia to manage urea cycle defects.



Lessons learned

- Vision, plans, policies and reporting
- Principles fair, sustainable
- Location, space and resources
- Multi-disciplinary methodology
- Range of projects



Summary

- Open for 3+ years
- Location, staff, reporting and policies
- 81 Projects (31 completed, 50 open)
- 1527 Participants recruited
- 43 Publications
- Welcome new project proposals in the final year





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Any questions?



