

# INTERDISCIPLINARY RESEARCH IN HEALTH SCIENCES (IRIHS) ANNUAL REPORT 2018

IRIHS is a research unit within the Nuffield Department of Primary Care Health Sciences at the University of Oxford. It is led by Professor Trisha Greenhalgh and Associate Professor Sara Shaw. IRIHS aims to undertake high-quality interdisciplinary research, teaching and applied scholarship in fields relating to clinical practice, organisation and delivery of health services, health policy, translational science (covering the social and behavioural science of innovation and adoption), digital health and the patient experience.

## Main achievements in 2018

1. **EXPANSION OF ACADEMIC STAFF.** We have expanded considerably since 2017; we now have one Clinical Professor, one Associate Professor, three Senior Researchers, seven Postdoctoral Researchers, 15 DPhil students, three additional (predoctoral) researchers, four Academic Clinical Fellows, and five academic-related and support staff.
2. **RESEARCH:** Research income for new research studies included £1.1M as principal investigators. Around £10M in ongoing research grants.
3. **PUBLICATION AND DISSEMINATION:** We published 50 peer-reviewed academic articles. We won the overall category in Royal College of GPs Research Paper of the Year Award. We gave a number of high-profile keynote lectures, conference presentations and policy briefings. IRIHS senior staff sit on various policy groups e.g. Fahy is Special Adviser to the House of Commons Select Committee on Brexit.
4. **TEACHING:** We contributed to various MSc courses at Oxford. We gained provisional approval for a new MSc and DPhil Programme in Translational Health Sciences.
5. **DOCTORAL STUDENTS.** Of our 15 DPhil students, one passed with minor corrections; another has submitted and is awaiting viva. Two more are writing up; one has passed Confirmation of Status and one has passed Transfer of Status; several more are close to submission of CoS or ToS.
6. **FELLOWSHIPS.** Three people (Barry, Treadwell, Walumbe) commenced NIHR Doctoral Fellowships. One Senior Researcher (Wherton) gained an OPEN Knowledge Translation Fellowship. One person (Fahy) gained a Research Fellowship at Green Templeton College.

## Staff in post on 31st December 2018 (see also DPhil students below)

ACADEMIC STAFF				
Name		Role	Academic field	FTE
Trisha	Greenhalgh	Clinical Professor and Co-Director of IRIHS	Primary health care, social sciences	100%
Sara	Shaw	Associate Professor and Co-Director of IRIHS	Health policy, sociology	80%
Nick	Fahy	Senior Researcher	Health policy	100%
Joe	Wherton	Senior Researcher	Psychology / computing	100%
Geoff	Wong	Clinical Research Fellow	GP	40%
Gemma	Hughes	Postdoctoral Researcher	Social sciences	70%
Stuart	Faulkner	Postdoctoral Researcher	Medical innovation and health systems policy	100%
Suzanne	li	Postdoctoral Researcher	Social sciences	60%
Chrysanthi	Papoutsi	Postdoctoral Researcher	Social sciences	100%
Alexander	Rushforth	Postdoctoral Researcher	Social sciences	100%
Lucas	Seuren	Postdoctoral Researcher	Linguistics	100%

Teresa	Finlay	Postdoctoral Researcher	Nursing / social sciences	80%
Christine	A'Court	GP Researcher	Primary health care	40%
Claire	Duddy	Research Fellow	Systematic reviews	60%
Fernando	Gouvea Reis	Research Assistant	Global health	20%
Luke	Allen	Academic Clinical Fellow (GP)	Primary health care	20%
Asli	Kalin	Academic Clinical Fellow (GP)	Primary health care	20%
Salman	Waqar	Academic Clinical Fellow (GP)	Primary health care	20%
Michael	Walker	Academic Clinical Fellow (GP)	Primary health care	20%
Eleanor	Barry	Doctoral Fellow	Primary health care	50%
Julian	Treadwell	Doctoral Fellow	Primary health care	75%

ACADEMIC-RELATED AND SUPPORT STAFF				
Name		Role	Main focus	FTE
Ben	Clyde	Patient and Public Involvement	PPI strategy	60%
Polly	Kerr	Patient and Public Involvement	PPI liaison / teaching	90%
Linnemore	Jantjes	Administrator	General support	40%
Caroline	Jordan	Administrator	General support	20%
Jill	Fardon	Administrator / manager	BRC theme liaison / PA	80%
Charlotte	Thompson-Grant	Administrator	General support / PA	60%

ASSOCIATES			
Name		Role	Academic field
Aileen	Clarke	Honorary Clinical Professor (application pending)	Health services research
Alexander	Finlayson	Past Academic Clinical Fellow (GP)	Primary health care
Christian	Collins	Academic F2	Neurology

### Higher degree students (including those on staff payroll)

BASED IN OUR DEPARTMENT (INCLUDING DPHILS in EBHC REGISTERED WITH CONT ED)

Name	Background	Supervisor	Funding	Topic of doctorate	From (FT/PT)	Progress
Gemma Hughes	Social policy / manager	Greenhalgh, Shaw	Wellcome Trust	Integrated care in practice	2012 (PT)	Passed with minor corrections Dec 18
Dominic Hurst	Dentist	Greenhalgh, Mickan	Self	Dentists' knowledge-in-practice	2012 (PT)	Full draft of thesis completed
Adrian Rohrbasser	GP / Educator	Wong, Harris, Mickan	Self	Quality circles in primary health care: realist evaluation	2013 (PT)	CoS report submitted (viva Jan 19)
Samantha Roberts	Doctor / manager	Greenhalgh, Shaw	Self	Policies to prevent type 2 diabetes	2015 (PT)	CoS passed Apr 18; writing up
Caitlin Pilbeam	Anthropology	Greenhalgh, Potter	Wellcome Trust	Living well while dying	2016 (FT)	ToS passed Jan 18; CoS report in progress
Sietse Wieringa	GP	Greenhalgh, Engebretsen	Norwegian Research Council	Mindlines (socially shared knowledge) among GPs	2016 (PT)	ToS passed July 17; CoS report in progress
Richard Gleave	Policymaker	Shaw, Fahy, Greenhalgh	Public Health England	How national public health bodies use evidence	2017 (PT)	Draft ToS report completed

Katrin Micklitz	Mindfulness Practitioner	Wong, Howick	Self	Workplace-based mindfulness programmes	2017 (PT)	
Julian Treadwell	GP	Greenhalgh, Mahtani, Crocker	NIHR DRF	Online tools for assessing benefits & harms of treatments	2018	
Jacobus Koetze	Doctor	Greenhalgh, Fahy	Rhodes Scholar	Ethical influences on clinician-managers	2018 (FT)	
Alex Jager	Social policy	Wong, Papoutsi	NIHR SPCR	Incorporating big data in commissioning: realist approach	2018 (FT)	
Jackie Walumbe	Physiotherapy	Shaw, Silman, Swinglehurst	NIHR DRF	Self-management in chronic pain	2018 (PT)	ToS in preparation
Ellie Barry	GP	Greenhalgh, Shaw	NIHR DRF	Lived experience of pre-diabetes	2018 (PT)	Maternity leave from Nov 18
Mona Koshkoui	Pharmacy	Greenhalgh, Dopson	Self	Falsified Medicines Directive	2018 (PT)	ToS in preparation
Maryam Ahmadyar	Dental public health	Wong	Clarendon scholar	Improving access of homeless people to dental services	2018 (FT)	

#### BASED ELSEWHERE

Name	Based in	Background	Supervisor	Topic of doctorate	From (FT/PT)	Progress
Lissa Conley	Exp Psychology	Psychology	Vincent, Franklin, <b>Papoutsi</b>	M-health and medication adherence in older people	2018 (PT)	ToS planned for Feb 19
Tim Stephens	Queen Mary U of London	Intensive care nursing	Pearse, <b>Shaw</b>	Sustainability of quality improvement in acute settings	2015 (PT)	9-month review passed Feb 2016
John Ford	UEA	Public Health	Steel, Jones, Wong	Improving access to high quality primary care for disadvantaged older people in rural areas	2014 (PT)	Passed with minor corrections (Nov 2018)

#### Research activity

*New research grants secured in 2018 on which we are principal investigators:*

- Case study, Context and Complex interventions (TRIPLE C) – development of guidance and publication standards to support case study-based research.** Medical Research Council Methodology Programme, £199,762 March 2019 – August 2021. (SS – PI, with CP, TG).
- Enhancing technology-mediated communication: qualitative analysis of remote consultations in cancer, diabetes and heart failure.** £149,972 NIHR Research for Patient Benefit. Sept 2018 – Aug 2019. (SS with TG, CAC, JW).
- PARADIGM** (Patients Active in Research and Dialogues for an Improved Generation of Medicines), £457,653 of €9M total grant, funded by the EU's Innovative Medicines Initiative, 2.5 years March 2018 – Aug 2020 (NF is UK-based PI with SF, SI, TF).

*New research grants secured in 2018 on which we are co-investigators:*

- Optimising Shared decision-making for high-Risk major Surgery (OSIRIS).** £221,763 of total grant £2,342,660 NIHR Programme Grant for Applied Research. Feb 2019 – Dec 2025. (Led by Rupert Pearse from QMUL; SS as co-applicant with JW named researcher).

5. **A realist review of community engagement with health research.** £18,217 of total grant £260,250 Wellcome Trust. Jan 2019 - November 2020 (PI – Molyneux, Department of Tropical Medicine and Global Health, Oxford; GW as co-applicant, CD as librarian).
6. **Optimising a whole-person-centred approach to stopping medicines in older people with multi-morbidity and polypharmacy: the TAILOR Medication Syntheses.** £8,282 of a total grant £322,858 NIHR HTA Programme funded review. Sept 2018 - Aug 2020. (Jointly led by Joanne Reeves and Kamal Mahtani from Hull York Medical School and NDPCHS respectively; GW as co-applicant).
7. **Remediating doctors' performance to restore patient safety: A realist review.** £22,422 of total grant £200,698 NIHR HS&DR Programme. April 2018 - Sept 2019 (PI – Brennan, University of Plymouth; GW as co-applicant).

*Ongoing research studies on which we are principal investigators:*

8. **Scaling up virtual consultations across the NHS – implementing, evaluating and sustaining improvements.** Health Foundation Scaling Up Improvement Award, £222K of total grant £472K, Dec 17 – May 21 (TG as academic PI, with SS, CP, JW, partners to NHS-led study by S Vijayaraghavan et al).
9. **Partnerships for Health, Wealth and Innovation** (Biomedical Research Centre theme). NIHR, £6.5M (of which £1.393M is formally allocated to IRIHS). April 2017 – March 2022. (TG, with NF).
10. **Studies in Co-creating Assisted Living Solutions (SCALS).** £1.053M Wellcome Trust Senior Investigator Award plus £27K Public Engagement Award. July 2015 – June 2020. (TG, with JW, SS, SH).

*Ongoing research studies on which we are named co-investigators:*

11. **Care Under Pressure: a realist review of interventions to tackle doctors' mental ill-health and its impacts on the clinical workforce and patient care.** NIHR HS&DR Programme. £22K of total grant £202K. November 2017 – May 2019 (GW, CP, co-investigators to Karen Mattick and Mark Pearson, University of Exeter).
12. **Can group clinics offer a better way to meet the complex health and social care needs of young adults with diabetes in an ethnically diverse, socioeconomically deprived population? (TOGETHER study)** NIHR HS&DR. £148k of total £420k, Dec 2016 – Nov 2019. (TG, Co-I to S Finer at QMUL, CP).
13. **Improving the evidence-base for primary care:** NIHR Evidence Synthesis working group. NIHR SPCR. £23k of total £1.91M. Oct 2017 to Sept 2020 (GW, co-investigator to Carl Heneghan).

## Research impact/knowledge translation activity (see also 'External appointments')

*Impact activities in 2018*

1. **Implementing and scaling up virtual (video) consultations** (JW, as part of Health Foundation and ESRC Impact Acceleration Award with TG and SS). Supporting implementation and roll-out of remote consultations at Barts Health NHS, Oxford University Hospitals NHS Foundation Trust, and Norfolk and Norwich University Hospitals Foundation Trust through direct engagement with staff, patients and managers, running capacity-building workshops and building cross-departmental collaborations. Also supporting national work on remote consultations by providing an evidence-based 'how to' guide to NHS England (Elective Care Transformation Programme), feeding into policy development and extending our learning to key stakeholders. We have begun to support a service improvement initiative using video communication technology across Wales, in collaboration with Aneurin Bevan Health Board. We have contributed a case study to Health Education England's Topol review, for the preparation of the healthcare workforce for future technology-supported services. JW was seconded to Microsoft Healthcare, Seattle, USA, to inform development of video communications software for virtual consultations.
2. **Messy Realities: The Secret Life of Technology.** Temporary exhibition on the lived reality of assisted living technologies at Pitt Rivers Museum, July –September 2018. (GH, with TG and SS).
3. **Impact conferences.** Two one-day conferences on research impact were held at Jesus College Oxford in

June and November 2018. Around 80 attendees at each from total of 8 countries.

4. **Future of health and care.** Five events, hosted by the Health & Care Initiative at Green Templeton College, with attendees up to 120. Funding has been secured for a pilot Foresight event in March 2019, bringing together academics, policymakers and practitioners from across the world to tackle the key challenges to developing sustainable health and care systems.

*New impact / knowledge exchange grants secured in 2018:*

1. **Implementation of the NASSS framework in policymaking.** £24,995 HEIF OPEN Policy Fellowship 2018-2019 for J Wherton. (TG – PI with SS and JW).
2. **Prevention-oriented primary care: learning from Europe.** £3,000 Knowledge Exchange Seed Fund, University of Oxford. Mar-Jul 2018. (SS with Allen).
3. **Establishing the International Network on Prevention-Oriented Primary Care** £15,000. Global Challenges Support Fund, University of Oxford. Feb-Sep 2018. (SS, with Allen).

## Main teaching achievements

1. **New MSc.** We have developed a new MSc in Translational Health Sciences in collaboration with Continuing Education; it is scheduled to take its first students in October 2020. The outline academic and business case has been approved; the full business case has so far received approval at departmental and divisional level. Modules cover (for example) behavioural science (NF), patient/public involvement (TF), health economics and regulation (SF), organisational and policy change (TG, NF), the global health context for healthcare innovation (NF, AK), and measuring research impact (AR).
2. **Existing MSc teaching.** TG is co-lead on the Knowledge to Action Module in MSc in EBHC, on which NF, TF and SS also teach. GW leads the MSc module in Realist Evaluation and Review with CP. We have also taught on the following Masters courses run by other groups:
  - MSc in Evidence-Based Health Care (TG, GW, CP, SS);
  - MSc in Evidence-Based Systematic Reviews (GW, CP);
  - MSc in Evidence-Based Social Intervention & Policy Evaluation, Department of Social Policy (SS, NF)
  - MSc in International Health & Tropical Medicine, Nuffield Department of Medicine (TG);
  - MSc in Policy Evaluation, Blavatnik (SS, TG, NF);
  - MSc in Surgical Sciences, Nuffield Department of Surgery (TG, CP);
  - MSc in Healthcare Management and Leadership (NF);
  - MBA dissertation projects, Saïd (NF).
3. **Undergraduate teaching.** TG gives lectures and undertakes coaching and marking on the undergraduate medicine course.
4. **College-based support and teaching.** TG, NF, SS and CP are College Advisors at Green Templeton and GW is a College Advisor at Kellogg. NF is on the steering committee of the Management in Medicine programme at Green Templeton. NF, SS and TG are part of the Future of Health and Care initiative at Green Templeton.

## Fellowships

*New fellowships commenced in 2018:*

1. **TREADWELL.** *Online tools for estimating the benefits and harms of treatments.* NIHR Doctoral Fellowship. Oct 2018- Sept 2023.
2. **BARRY.** *Lived experience of prediabetes.* NIHR Doctoral Fellowship. Jan 2018-Dec 2023.
3. **WALUMBE.** *Self-management of chronic pain.* NIHR Doctoral Fellowship. Jan 2018-Dec 2023.

*Continuing fellowships:*

4. **PAPOUTSI.** *Springboard Health of the Public 2040 Award.* Academy of Medical Sciences/Wellcome Trust. Sept 2017 – Sept 2019.
5. **DUDDY.** *Reducing overdiagnosis and overprescribing: realist review.* NIHR Systematic Reviews MSc Fellowship. Oct 2017 – Sept 2020.

## Academic publications in 2018

Publications considered possible returns to REF2021 are **highlighted**. Associates' publications not included.

1. **Allen L.** Leveraging primary care to address social determinants. *The Lancet Public Health.* 2018 Oct 1; 3 (10): e466.
2. **Allen LN,** Barkley S, De Maeseneer J, van Weel C, Kluge H, de Wit N, ...**Greenhalgh T** et al. Unfulfilled potential of primary care in Europe. *BMJ.* 2018;363:k4469.
3. **Allen LN,** Pullar J, Wickramasinghe KK, Williams J, Roberts N, Mikkelsen B, Varghese C, Townsend N. Evaluation of research on interventions aligned to WHO 'Best Buys' for NCDs in low-income and lower-middle-income countries: a systematic review from 1990 to 2015. *BMJ Global Health.* 2018 Feb 1; 3 (1): e000535.
4. **Allen LN,** Townsend N, Williams J, Mikkelsen B, Roberts N, Wickramasinghe K. Socioeconomic status and alcohol use in low-and lower-middle income countries: A systematic review. *Alcohol* 2018; 1;70:23-31.
5. Barber S, Brettell R, Perera-Salazar R, **Greenhalgh T,** Harrington R. UK medical students' attitudes towards their future careers and general practice: a cross-sectional survey and qualitative analysis of an Oxford cohort. *BMC Medical Education.* 2018;18(1):160.
6. **Barry E, Fahy N, Greenhalgh T.** How are Health Related Behaviours Influenced by a Diagnosis of 'Pre-Diabetes'? A Mixed Study Meta-Narrative Review. *BMC Medicine* 2018; 16: 121.
7. Best A, Berland A, **Greenhalgh T,** Bourgeault I, Saul J, Barker. Networks as systems: A case study of the World Health Organisation's Global Health Workforce Alliance. *Journal of Health Organisation and Management* 2018; 32 (1): 9-24.
8. Carrieri D, Briscoe S, Jackson M, Mattick K, **Papoutsi C,** Pearson M, **Wong G.** 'Care Under Pressure': a realist review of interventions to tackle doctors' mental ill-health and its impacts on the clinical workforce and patient care. *BMJ Open* 2018; 8:e021273.
9. Clinch M, **Shaw SE,** Ashcroft R and Swinglehurst D. Managing Liminalities: Methodologies, Approaches and Perspectives Shaping Life Sciences, *Biosocieties* 2018, doi.org/10.1057/s41292-018-0128-x.
10. Cummins S, Clark C, Lewis D, Smith N, Thompson C, Smuk M, ... **Greenhalgh T** et al. The effects of the London 2012 Olympics and related urban regeneration on physical and mental health: the ORIEL mixed-methods evaluation of a natural experiment. Southampton (UK): *NIHR Journals Library*, 2018.
11. **Duddy C, Wong G.** Explaining variations in test ordering in primary care: protocol for a realist review. *BMJ Open* 2018; 8:e023117.
12. Eichler H-G, Bedlington N, Boudes M, Bouvy JC, Broekmans, AW, Cerreta F, **Faulkner SD** et al, Medicines Adaptive Pathways to Patients: Why, When, and How to Engage? *Clinical Pharmacology & Therapeutics*, 2018, 9,doi:10.1002/cpt.1121.
13. Ford J, Jones A, **Wong G,** Clark A, Porter T, Steel N. Access to primary care for socio-economically disadvantaged older people in rural areas: exploring realist theory using structural equation modelling in a linked dataset. *BMC Health Serv Res Methodol* 2018;18:57
14. Ford J, Turley R, Porter T, Shakespeare T, **Wong G,** Jones A, Steel N. Access to primary care for socio-economically disadvantaged older people in rural areas: A qualitative study. *PLoS ONE* 2018 13(3):e0193952.
15. **Greenhalgh T, Fahy N, Shaw S.** The Bright Elusive Butterfly of Value in Health Technology Development. *International Journal of Health Policy and Management* 2018; 7(1): 81.
16. **Greenhalgh T, Papoutsi C.** Studying complexity in health services research: desperately seeking an

overdue paradigm shift. *BMC Medicine*. 2018; 16 (66): 95.

17. **Greenhalgh T, Shaw S, Wherton J**, Vijayaraghavan S, Morris J, Bhattacharya S, Hanson P, Campbell-Richards D, Ramoutar S, Collard A: Real-world implementation of video outpatient consultations at macro, meso, and micro levels: mixed-method study. *Journal of Medical Internet Research* 2018, 20(4).
18. **Greenhalgh T**, Thorne S, Malterud K. Response to Faggion. *European Journal of Clinical Investigation* 2018: e12946.
19. **Greenhalgh T**, Thorne S, Malterud K. Time to challenge the spurious hierarchy of systematic over narrative reviews? *European Journal of Clinical Investigation*. 2018;48(6):e12931.
20. **Greenhalgh T, Wherton J, Papoutsis C**, Lynch J, **Hughes G**, Hinder S, Procter R, **Shaw S**: Analysing the role of complexity in explaining the fortunes of technology programmes: empirical application of the NASSS framework. *BMC Medicine* 2018, 16(1):66.
21. **Greenhalgh T**. How to Improve Success of Technology Projects in Health and Social Care. *Public Health Research and Practice*. 2018; 28(3): e2831815.
22. **Greenhalgh T**. Of lamp posts, keys, and fabled drunkards: A perspectival tale of 4 guidelines. *Journal of Evaluation in Clinical Practice*. 2018; 24:1132–1138.
23. **Greenhalgh T**. What have the social sciences ever done for equity in health policy and health systems? *International Journal for Equity in Health* 2018; 17:124-126.
24. Hatefi A, **Allen L**. Donors, non-communicable diseases and universal health coverage to high-quality healthcare: an opportunity for action on global functions for health *J Epidemiol Community Health* 2018;72:665-667.
25. Hatefi A, **Allen LN**, Bollyky TJ, Roache SA, Nugent R. Global susceptibility and response to noncommunicable diseases. *Bulletin of the World Health Organization*. 2018 Aug 1;96(8):586.
26. Hauerslev M, **Allen L**. Young people and noncommunicable diseases—vulnerable to disease, vital for change. *Int J Noncommunicable Diseases*. 2018 Apr 1;3(2):45.
27. **Hughes, G**, Emerich N. *Ethnography and Ethics: Securing Permission for Doctoral Research in and From the National Health Service*. *SAGE Research Methods Cases* [Online, e-pub 2018].
28. **Hughes, G**. Symbolic, Collective and Intimate Spaces: An ethnographic approach to the places of integrated care, in Garnett, E., Reynolds, J. & Milton, S. (eds.) *Ethnographies and Health: Reflections on empirical and methodological entanglements*: Palgrave Macmillan 2018, pp. 123-140.
29. Hurst D, **Greenhalgh T**. Knowing in general dental practice: Anticipation, constraint, and collective bricolage. *Journal of Evaluation in Clinical Practice*. 2018; DOI: 10.1111/jep.13051 .
30. **Li SS**, Fitzgerald L, Morys-Carter MM, Davie NL, Barker R. Knowledge translation in tri-sectoral collaborations: An exploration of perceptions of academia, industry and healthcare collaborations in innovation adoption. *Health Policy* 2018; 122 (2): 175-183.
31. **Li S**, Fitzgerald L et al, Knowledge translation in tri-sectoral collaborations: An exploration of perceptions of academia, industry and healthcare collaborations in innovation adoption. *Health Policy* 2018; 122 (2): 175-183, doi.org/10.1016/j.healthpol.2017.11.010.
32. Kastner M, Cardoso R, Lai Y, Treister V, Hamid J, Hayden L, **Wong G**, Ivers N, Liu B, Marr S, Holroyd-Leduc J, Straus S. Effectiveness of interventions for managing multiple high-burden chronic diseases in older adults: a systematic review and meta-analysis. *CMAJ* 2018;190(34):E1004-E1012.
33. Macfarlane A, **Greenhalgh T**: Sodium valproate in pregnancy: what are the risks and should we use a shared decision-making approach? *BMC Pregnancy and Childbirth* 2018, 18(1):200.
34. **Papoutsis C**, Mattick K, Pearson M, Brennan N, Briscoe S, **Wong G**. Interventions to improve antimicrobial prescribing of doctors in training (IMPACT): a realist review. *Health Serv Deliv Res* 2018;6(10).
35. **Papoutsis C**, Poots A, Clements J, Wyrko Z, Offord N, Reed JE. Improving patient safety for older people in acute admissions: implementation of the Frailsafe checklist in 12 hospitals across the UK. *Age and Ageing* 2018;47(2):311-17. doi: 10.1093/ageing/afx194.
36. Procter R, **Wherton J, Greenhalgh T**. Hidden Work and the Challenges of Scalability and Sustainability in Ambulatory Assisted Living. *ACM Transactions in Computer-Human Interaction* 2018; 25 (2), Article 11.

37. Pullar J, **Allen L**, Townsend N, Williams J, Foster C, Roberts N, Rayner M, Mikkelsen B, Branca F, Wickramasinghe K. The impact of poverty reduction and development interventions on non-communicable diseases and their behavioural risk factors in low and lower-middle income countries: a systematic review. *PLoS One*. 2018 Feb 23;13(2):e0193378.
38. Roberts S, Craig D, Adler A, McPherson K, **Greenhalgh T**. Economic evaluation of type 2 diabetes prevention programmes: Markov model of low and high intensity lifestyle programmes and metformin in participants with different categories of intermediate hyperglycaemia. *BMC Medicine* 2018; 16: 16.
39. **Rushforth A**, Franssen T, de Rijcke S. Portfolios of Worth: Capitalizing on basic and clinical problems in biomedical research groups. *Science, Technology & Human Values* 2018:0162243918786431. doi: 10.1177/0162243918786431.
40. **Shaw S, Wherton J**, Vijayaraghavan S, Morris J, Bhattacharya S, Hanson P, Campbell-Richards D, Ramoutar S, Collard A, Hodkinson I, **Greenhalgh T**. Virtual Online Consultations: Advantages and Limitations (VOCAL). A mixed-method study at micro, meso and macro level. *Health Serv Deliv Res* 2018; 6: 21.
41. **Shaw SE**, Cameron D, **Wherton J, Seuren LM**, Vijayaraghavan S, Bhattacharya S, et al. Technology-Enhanced Consultations in Diabetes, Cancer, and Heart Failure: Protocol for the Qualitative Analysis of Remote Consultations (QuARC) Project. *JMIR Research Protocols*. 2018;7(7).
42. Stephens TJ, Peden CJ, Pearse RM, **Shaw SE**, Abbott TEF, Jones E, Kocman D & et al. (2018) Improving care at scale: process evaluation of a multi-component quality improvement intervention to reduce mortality after emergency abdominal surgery. *Implementation Science*, 13: 142. <https://doi.org/10.1186/s13012-018-0823-9>.
43. **Wherton J, Greenhalgh T, Shaw SE**, Procter R. Wandering as a socio-technical practice: extending the theorisation of GPS tracking in cognitive impairment. *Qualitative Health Research* 2018; e-pub DOI://1d0o.i.1o1rg7/71/01.10147977/13024391738273918375983.
44. WHO [**Allen** – co-author]: *Progressing primary health care: a series of country case studies*. Geneva: WHO, 2018.
45. **Wieringa S**, Engebretsen E, Heggen K, **Greenhalgh T**: How knowledge is constructed and exchanged in virtual communities of physicians: qualitative study of mindlines online. *Journal of Medical Internet Research* 2018, 20(2).
46. **Wieringa S**, Engebretsen E, Heggen K, **Greenhalgh T**. Rethinking bias and truth in evidence-based health care. *J Eval Clin Pract*. 2018;(July):1-9. doi:10.1111/jep.13010.
47. Williams J, **Allen L**, Wickramasinghe K, Mikkelsen B, Roberts N, Townsend N. A systematic review of associations between non-communicable diseases and socioeconomic status within low-and lower-middle-income countries. *Journal of global health* 2018: 8 (2).
48. **Wong G**. Methods Commentary: Realist reviews in health policy and systems research. In: Langlois E, Daniels K, Akl E, editors. *Evidence Synthesis for Health Policy and Systems: A Methods Guide*. Geneva: World Health Organization, 2018.
49. **Wong G**. Data gathering for realist reviews: Looking for needles in haystacks. In: Emmel N, Greenhalgh J, Manzano A, Monaghan M, Dalkin S, editors. *Doing Realist Research*. London: Sage, 2018.
50. **Wong G**. Making theory from knowledge syntheses useful for public health. *Int J Public Health* 2018; 63 (5): 555-556.

### Major keynote lectures, workshops and conference presentations 2018

1. Greenhalgh T. *Patient and Public Involvement – Achievements and Challenges*. Annual Guest Lecture, Cambridge Centre for Health Services Research, November 2018.
2. Greenhalgh T. *Nonadoption, abandonment and challenges to scale-up, spread and sustainability: explaining the varied fortunes of technology projects in health and care*. Invited keynote lecture, WHO high-level meeting 'Leaving no-one behind', Tallinn, Estonia, May 2018.



3. Greenhalgh T. *Research impact – defining it, measuring it, improving it*. Dean’s Lecture, University of Sydney, March 2018.
4. Greenhalgh T. *Why technology projects in healthcare fail – and how to improve their success*. Academy of Medical Sciences Annual Showcase, London, October 2018.
5. Fahy, N. *Innovation and implementation*. European Health Management Association, Budapest, Hungary, June 2018.
6. Wong, G. *Realist Reviews of health interventions – dealing with complexity and context?* Department of Public Health and Primary Care, University of Cambridge, January 2018
7. Wong, G. *Realist Synthesis*. National Institute for Health and Care Excellence, London, Feb 2018.
8. Wong, G. *Programme theory*. National Institute for Health and Care Excellence, London, July 2018.
9. Wherton J. *Real-world implementation of virtual consultations in the NHS*. British Academy of Audiology, Liverpool, November 2018.
10. Wherton J. *Co-evolving virtual consultation services within the NHS*. Making a Difference – Social Sciences and Impact Conference, Oxford, April 2018.

## External appointments

### Allen:

- Editorial board member, BJGP
- WHO consultant on primary care and public health

### Fahy:

- Oxford: appointed Research Fellow of Green Templeton College; co-director of the GTC Initiative on the Future of Health and Care
- UK: Specialist advisor to House of Commons Health Select Committee; with Blavatnik School of Government, advising Department of Health and Social Care on strategic policy challenges
- Management Center Innsbruck: appointed member of the Academic Advisory Council of the new Center for Social and Health Innovation
- European: Policy adviser within an EU-funded research project ‘Transfer of Organisational innovations for Resilient, Effective, equitable, Accessible, sustainable and Comprehensive Health Services and Systems’, a 29-partner consortium bringing together ministries, research institutes and universities and aiming to set a Europe-wide agenda for research into health services and systems; advising European Observatory on health systems and policies on implementation research; appointed to the board of the European Health Forum Gastein and leading work on capacity building for policymakers at the Forum
- World Health Organisation: rapporteur for the WHO/EURO Foresight project for the future of European health systems; chair of the WHO Expert Group to enhance Health 2020 monitoring and reporting; adviser to WHO initiative on digitalisation of European health systems
- Executive Committee, Future of Health & Care Initiative, Green Templeton College

### Greenhalgh:

- Chair, NHS Improvement Committee on Communication in Patient Safety
- Member, Scientific and Technical Advisory Committee, WHO Alliance for Health Policy and Systems Research
- Visiting Professor, Radboud University, Nijmegen, Netherlands
- Visiting Professor, Macquarie University, Sydney, Australia
- Distinguished Fellow, George Institute, Sydney, Australia
- European Public Health Association, International Advisory Group on Public Health Research Impact

- NHS England, Primary Care Digital Transformation Team
- Executive Committee, Future of Health & Care Initiative, Green Templeton College

#### **Shaw**

- Delivering Primary Health Care to Homeless People, NIHR Advisory Committee
- Executive Committee, Future of Health & Care Initiative, Green Templeton College

#### **Treadwell**

- National Institute for Health and Care Excellence: co-moderator, GP Reference Panel; Chair, Diabetes Pathway Committee and Member, Guidelines Manual Virtual Reference Group
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#### **Wherton**

- Member, Oxford Academic Health Science Network (AHSN) Informatics Oversight Group
- Industry secondment with Microsoft Healthcare, Seattle, USA, through Oxford ESRC Knowledge Exchange Fellowship

#### **Wong**

- Member, National Institute for Health and Care Excellence, Guidelines Manual Virtual Reference Group
- Joint Deputy Chair, NIHR, Health Technology Assessment Programme – Primary Care Panel

### **Strategy for 2019**

1. RESEARCH: Continue our current funded programmes of work – especially BRC, SCALS, TOGETHER, PARADIGM and QUARC. Work on two major programme grant applications (one in digital health, one in health systems) with a view to securing core funding by mid 2020. Horizon-scan for additional longer-term opportunities.
2. PUBLICATION AND DISSEMINATION: All research staff to publish one REF-returnable empirical paper or systematic review per year. Continue and extend public engagement work in SCALS-related research, and continue local and national implementation of VOCAL findings with a view to a REF impact case study in implementation of digital technologies.
3. TEACHING: Main priority in 2019 is developing the MSc in Translational Health Sciences. Keep doctoral students on track. Ensure postdocs gain supervision experience.
4. STAFF AND STUDENT DEVELOPMENT. Support new DPhil applications related to our existing research programmes; ensure that all early career researchers have clear career plans and opportunities for progression. Where appropriate, submit applications for pre-doctoral, doctoral, post-doctoral and senior research fellowships.

Trisha Greenhalgh and Sara Shaw  
December 2018