

Institution: Cardiff University
Unit of Assessment: A2
<p>a. Overview</p> <p>The Unit is predominantly comprised of researchers based in the Cochrane Institute of Primary Care and Public Health. Created in 2011, the Institute brings together researchers across the disciplines of primary care, public health, clinical medicine, and child health (24 principal investigators in total). During the assessment period, the Institute won £49M in grant and infrastructure funding (2008 - Jul13), published 903 articles in peer reviewed journals, and supervised 15 PhD and 5 MD students to completion (with 27 currently registered). A return to REF 2014 of more than double the size returned to RAE 2008 is evidence of the growing priority, depth and consolidation in this field at Cardiff University.</p>
<p>b. Research strategy</p> <p>Our strategic objective is to carry out rigorous research that improves quality of clinical care, informs policy development at Welsh and UK Government, and is applicable to many settings internationally. Our research is rooted in a population that has high levels of post-industrial deprivation and inequality. Wales has health status indicators amongst the worst in Europe, with high levels of intractable health risk behaviours such as cigarette smoking and alcohol binge drinking. We have risen to the challenge of researching some of the most difficult to change health care behaviours that have resulted in high levels of chronic health problems in the population. Our outputs inform practice and policy worldwide.</p> <p><u>Changes during assessment period</u></p> <p>During the assessment period, the School of Medicine conducted a strategic reconfiguration of resources. This has increased critical mass in areas of strength by reducing the number of research teams, and increasing efficiency around research resource and support, through the creation of five research institutes, one of which is the Cochrane Institute of Primary Care and Public Health. The new Institute comprises of researchers from the former Department of Primary Care and Public Health as well as researchers from former Departments of Child Health, Geriatrics and the Institute of Medical Genetics and includes clinicians, public health physicians, statisticians, research methodologists, epidemiologists, information scientists, social scientists and psychologists.</p> <p>During the assessment period, the Cochrane Institute of Primary Care and Public Health has:</p> <ol style="list-style-type: none"> Co-located the South East Wales Trials Unit (SEWTU) with the Cochrane Institute to exploit synergies and increase grant income and expertise. SEWTU designs, co-ordinates, analyses and disseminates large multicentre trials that have a direct impact on patient care and also provides the critical mass for innovation in study design and delivery. Since 2008, collaboration with SEWTU has resulted in 28 grants totalling approximately £18M. Developed a scalable platform for the support of large scale population studies. This facility can on a daily basis deploy up to 200 devices, respond to 2,000 calls and process 4,000 items of mail. This platform is a resource for the conduct of trials and cohorts. It has been used extensively by UK Biobank for participant support, accelerometry, web-based cognitive testing and screening for Magnetic Resonance imaging. Work carried out during the assessment period has led to us being awarded £4.5M in October 2013 (for 5 years) as the lead institution for the MRC UK Dementias Platform (UKDP). This flagship project, a response to the Prime Minister's Dementia Challenge, is a collaboration of UK universities (Cambridge, Cardiff, Edinburgh, Imperial, KCL, Oxford, UCL) bringing together over 20 cohorts with 2M participants into a platform for experimental medicine. Helped to win the £24.5M grant from the Welsh Government to establish the Wales-wide National Institute for Social Care and Health Research Clinical Research Collaboration (NISCHR CRC) and provide the Clinical Director (Butler). The 102.5 WTE research

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professionals are embedded in NHS clinical teams, and have achieved year on year increases in recruitment into health care studies that improve quality of care and evidence based clinical practice in the NHS. 376 clinical studies are open to recruitment in Wales. The NISCHR Portfolio increased from 420 studies in 2008/9 to 953 in 2012/13, and patient recruitment increased from 4886 to >9000 pa. We included 100 GP practices in research in 2011/12, and exceeded targets for including patients in cancer research.

Research plans

Using the unique opportunity in Wales characterised by a devolved government with specific policies for health and well-being for a population with high inequalities, and some of the worst health in Europe, we will further develop our learning in partnership with these communities to seek opportunities to improve health, well being and environments for healthy living. This will be facilitated by:

1. Maintaining strong engagement with the Welsh Government, Public Health Wales and Health Boards to improve health and well-being of people in Wales and worldwide by:
 - i. Better understanding the causes of variation in health and health care delivery;
 - ii. Developing and evaluating interventions that also address inequalities in health and well-being; and
 - iii. Ensuring our work is taken up into practice and policy.
2. Further development of a large scale epidemiology platform, exploiting the data available in Biobank and other routinely collected health and social care datasets in Wales, utilising the expertise in electronic data linkage within the Centre for Improving Population Health through E-Health Research (CIPHER) to answer policy relevant questions in the prevention of common conditions in primary care. CIPHER is one of four centres comprising the Health e-Research Collaboration UK (HeRC UK), a network of Centres of Excellence in Electronic Health Records Research, funded by a MRC led consortium (Cardiff is a key partner; Butler, Paranjothy, Fone and Gallacher are co-applicants).

Responsiveness to national and international priorities and initiatives

The organisation of the Unit's research programmes is geared up to ensure that our research is responsive to national and international priorities and initiatives:

- *The European funder Seventh Framework Programme (FP7)* Health theme is relevant to the work conducted by the Common Infections and Antibiotic Resistance research programme, with the group awarded £1.65M total EU FP7 funding during the assessment period. During this time, we also developed a successful bid to the Commission of the European Communities, 'PREPARE: Platform foR European Preparedness Against (Re-)emerging Epidemics' (£20.3M, £2.2M to CU) awarded July 2013, start date January 2014.
- *MRC's Strategic Plan* highlights themes that are directly relevant to the work of the Unit including 'Living a long and healthy life', 'Genetics and disease', 'Life course perspective' (Active Ageing, Early Years) and 'Lifestyles affecting health' (Healthcare communication and Quality) (£3.32M MRC funding awarded during the assessment period).
- *NIHR's public health research priorities* including 'health interventions aimed at a group or population level' and 'the organisation and delivery of healthcare with the aim of improving service quality and patient safety' relates directly the work of the Healthcare communication and Quality programme (£13.74M total DH / NIHR / NIHR HTA funding during period).
- *Welsh Government's National Institute for Health and Social Care Research (NISCHR)* strongly supports excellence in clinical research, and epidemiology has been highlighted in the Science Strategy for Wales.
- *NISCHR and South East Wales Academic Health Science Partnership (SEWAHSP)* have identified primary care and public health as a priority area, on the basis that it reflects national policy priorities in science, health and economic development and represents the greatest degree of overlap in strengths and strategic priorities.

Public engagement

As part of the Innovation & Engagement strategy, the School of Medicine hosts the 'Science in

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Health Public Lecture Series, a programme of monthly lectures by leading experts in the fields of medicine and healthcare. The highly successful series began in 2002. These free lectures attract a diverse audience of interested individuals including the public, secondary school pupils and professionals. The series has the dual aims of opening up areas of concern in health care and to present new research on health issues to the public. The Institute has made an active contribution to the lecture series (Aspirin, Salicylates and Cancer – Elwood 2013, Healthy behaviours and drugs in the promotion of healthy and active ageing - Elwood 2011, Making patient centred care a reality - Elwyn 2010, Nano Particles and Heart Disease - Matthews 2010). The Cochrane Institute has an *Internship Programme* aimed at undergraduate or graduate students looking to gain valuable experience by working on an active research project under the guidance of an internship mentor. During 2011-13, 18 students have benefited from an internship with the Institute, gaining experience in analysis of a variety of research activities including project management, data collection, analysis, and literature review.

Research groupings

The Institute has four research programmes are supported by a cross cutting platform, 'Research Methods' that covers: 1) the required fundamental sciences, including epidemiology, statistics, information sciences, and social sciences; 2) clinical trials and other well designed empirical studies, and 3) implementation science. Each programme has an appointed lead for strategic development with emphasis on integration and synergy between programmes, and impact.

- **Common Infections and Antibiotic Resistance** (Butler, Dunstan, Evans, Hood, O'Brien; Lead: Francis).
Scope: To improve understanding of the epidemiology, diagnosis, decision making, treatment and prevention of common infections. The programme links in with the 'Healthcare communication and quality' programme below in the investigation of patient and clinician behaviour, with the aim of reducing antibiotic prescribing, thus helping to contain antibiotic resistance.
- **Healthcare communication and Quality** (Butler, Edwards, Elwyn, Hood, Kinnersley, Mayor, Moore, Newcombe, Palmer, Robling, Rollnick, Simpson, Wood; Lead: Brain).
Scope: To improve health and health care through a programme of multidisciplinary research to understand and change the behaviour of the population, patients and clinicians. The programme has three clusters:
 - i. *Health Improvement*, which has a focus on complex community based interventions to improve health behaviour;
 - ii. *Healthcare Communication*, which has a focus on behaviour change counselling and decision support in clinical encounters;
 - iii. *Healthcare Improvement*, which has a focus on improving the quality, safety and efficiency of clinical practice.
- **Early Years** (Dunstan, Fone, Maguire, Paranjothy, Robling; Lead: Kemp).
Scope: To improve the health and wellbeing of children through a programme of multidisciplinary research that spans the epidemiology and determinants of child health and well-being, child protection, and development and testing of complex interventions to improve child health and wellbeing. The programme has three clusters:
 - i. *Developing methodology* for systematically reviewing the literature with regard to child abuse and neglect; injury epidemiology, prevention and biomechanics;
 - ii. *Health services research* using electronically linked data that is routinely collected from health and social care;
 - iii. *Development, evaluation and implementation of complex interventions* aimed at improving early years' outcomes.
- **Healthy Ageing** (Bayer, Currie, O'Mahony; Lead: Gallacher).
Scope: To promote the mental and physical health, well-being and welfare of older people through the conduct of high quality multi-disciplinary research. The methodological focus is on the development of large-scale methods to test realistically complex hypotheses and translational research, increasing the engagement of older people in ageing and health related research through new technologies and pragmatic methodologies. The research foci include the genetic and environmental determinants of cognitive and physical decline and interventions

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to improve the care of older people.

Promoting research

The Cochrane Institute actively contributes to the School of Medicine's Innovation & Engagement committee (Rollnick, Mayor), to drive forward collaboration, knowledge transfer and translational innovations, maximising opportunities to inform public policy and services across the health and social sector locally and globally.

We have a communication strategy in place that aims to promote the research, the staff, and innovation and engagement accomplishments of the staff and students. To deliver this, we have increased liaison with the University central Public Relations Office for the coordinated issue of media releases, news items on the University 'News Centre' web pages, and coverage in the University's newsletter 'Cardiff News'. During 2010-13, there have been 34 occasions in which our staff have provided expert comment for the mainstream media, for example, Butler commenting on antibiotic prescribing and resistance, ITV Tonight 24th October 2013 (3m viewers), BBC Radio 4, 16-Aug-2011, 13-Mar-2013; Nick Francis commenting on otitis media with effusion in children, BBC News Wales, 05-Mar-2013, and on the CREAM study and eczema in children, BBC Radio Wales 04-Jun-2013.

Developments in cross-disciplinary research

Developments in University cross disciplinary research have opened up opportunities for collaborative research successes, including:

1. The UK CRC Centre for the *Development and Evaluation of Complex Interventions for Public Health Improvement (DECIPHer)* which brings together leading experts from a range of disciplines to tackle public health issues such as diet and nutrition; physical activity; alcohol, tobacco and drugs, with a particular focus on developing and evaluating multi-level interventions that have an impact on the health and well-being of children and young people. The Centre was led by Moore who had a joint post between Cardiff Schools of Social Sciences and Medicine. DECIPHer, a strategic partnership with the University of Bristol, and Swansea University, is part of a £20 million investment into public health research and is funded by the UK Clinical Research Collaboration (UKCRC), comprising the Economic & Social Research Council, The British Heart Foundation, Cancer Research UK, the Wellcome Trust, the Welsh Government and the Medical Research Council.
2. *Sustainable Places Research Institute (PLACE)* - a joint collaboration between Cardiff Schools of Planning and Geography, Medicine, Psychology, Social Sciences, Biosciences, Law, Business, Engineering, Earth and Ocean Sciences, and Architecture. This builds upon a long-standing relationship between research at the Cochrane Institute, and the School of Architecture into the built environment and population health. The Cochrane Institute is also actively involved in the Severn Estuary Partnership, an independent, estuary-wide initiative led by local authorities and statutory agencies through PLACE.
3. The Cochrane Institute is a key partner in the recently funded MRC Centre for Improving Population Health through E-Health Research (CIPHER) (see research plans above).

Developing the Institute to be College-wide, new leadership capacity and links with other leading universities:

In the latter stages of the REF period, under the leadership of the new Vice Chancellor Professor Colin Riordan, Cardiff University was re-structured into 3 colleges, each led by a Pro-Vice Chancellor. Research in UoA 2 is now within the College of Biomedical and Life Sciences. The College of Biomedical and Life Sciences is developing ambitious plans to integrate researchers from eight Schools into a much larger Institute of Primary Care and Public Health research, bringing fresh opportunities for increased critical mass and collaborations within the University. Butler will be reducing his time at Cardiff University to allow him to take up a 70% appointment at Oxford University in late 2013. His 30% on-going role with Cardiff University enables him to contribute to the common infections group and build stronger links with Oxford University's infection researchers and between England's School of Primary Care Research and the Wales School of Primary Care Research. For example, primary care contributions to the new FP7 EU PREPARE program will be delivered by Cardiff together with Oxford (Butler is work package

leader). Moore's appointment to lead the MRC centre in Glasgow brings further opportunities for closer links between the institutions. These changes have presented new opportunities for leadership and Edwards is currently the Director of the Cochrane Institute.

c. People, including:

i. Staffing strategy and staff development

Staffing strategy and staff development operate within Cardiff University's Investors in People Framework. The University's commitment to, and progress towards implementing the European Charter and Code for Researchers and the Code of Conduct for the Recruitment of Researchers, has been recognised by the European Commission with an 'HR Excellence in Research' accreditation. It is a requirement of the School of Medicine that all staff involved in recruitment and retention undertake the institutional Equality and Diversity training. Judgments about promotions are made by the School Promotions Panel and the University's Academic Promotions Committee based upon excellence and made according to a formal 'Scheme of Assessment' which applies equally to all staff taking into account their contractual arrangements (e.g., full-time, part-time, jobshare, clinical nature of the candidate's employment) and all relevant equality and diversity issues. The effectiveness of the institutional commitment to equality and diversity is evidenced by an Athena Swan Bronze Award (to the University) in recognition of its success in recruiting, retaining and promoting women in Science, Engineering and Technology, and its ranking by Stonewall as one of the Top 100 Employers in Britain for lesbian, gay bisexual and transgender people in 2011.

All research staff have a structured career development plan and a formal annual appraisal, consistent with the 'Concordat to Support the Career Development of Researchers'. Appraisals, which for academics are conducted by senior professorial staff and for clinical academics are done jointly with NHS line managers (where applicable), explicitly include both a review of performance and identification of training and career development needs. The University's Cardiff Researcher Programme offers a wide range of workshops and courses that are offered free to members of staff. Where training and development requirements cannot be met within the institution, the Institute normally underwrites the costs of attending external courses. Regardless of their status, all researchers are supported in their preparation of funding bids by internal independent peer review throughout the process of grant preparation.

We implement the best principles of clinical and non-clinical career development, as described in Society for Academic Primary Care working papers, including clear non-clinical career trajectories (Hood, Robling, Gallacher), flexible working for family reasons (e.g. Wood, Brain), protected research time (e.g. key times in PhDs), sabbatical time (e.g. Maguire to Kempe Center for the Prevention and Treatment of Child Abuse and Neglect, University of Colorado, USA) and seconding to School or University priority activities (e.g. Elwyn to Dartmouth University, USA). In keeping with our concern for career development, we have won personal promotion for Wood to Senior Lecturer, Evans and Robling to Readership, Hood to a Personal Chair, and Simpson to Senior Research Fellow. Hood is a member of the assessment group and is leading on many of the Athena Swan initiatives within the School. Over the last 2 years Brain, Paranjothy and Wood have completed the 'Leadership and Management' programme, accredited by the Institute of Leadership and Management and run by Cardiff University.

Our Academic Fellows Programme in South East Wales develops early career academic general practitioners (Welsh Government £500K per annum). At any time, 5 newly qualified General Practitioners learn teaching and research skills while developing clinical skills and contributing to care and service delivery in areas of socioeconomic deprivation during a two-year appointment. Several of these fellows have graduated onto an academic ladder, progressing to become principal investigators and academic clinicians. For example, Francis progressed from Academic Fellow to win a MRC Clinical Training fellowship, a NISCHR Post doctoral fellowship, and now leads our common infections research programme. Two current professors (Butler, Edwards), a senior research fellow (Francis) and five other clinical lecturers (O'Brien, Cunningham, Metcalfe, Stanton, Stephens) were previous academic fellows. Each Fellow develops a research project, and works towards a Masters or other higher degree; engages in active peer support of learning and research at weekly meetings; and contributes to design and delivery of the academic/clinical curriculum.

ii. Research students

The Institute has actively grown its postgraduate research body since 2007 and there are currently 27 PhD students registered. We have invested £360K of Institute funds to create 11 new studentships (5 co-funded with the School), co-funded 8 MRC studentships (involving £154K of Institute funds) and secured £54K from the University through its prestigious President's Scholarship scheme to fund 2 new studentships (co-funded with £27K of Institute funds). Successful applications to external funders including NISCHR, and charities Foundation for the Sociology of Health and Illness (FSHI), Sir Halley Stewart Trust have resulted in 4 new studentships.

Research students are all members of the University's Graduate College, which exists to foster an intellectually stimulating environment where students are encouraged to share and develop research interests with peers from other Schools and to feel part of a wider cross disciplinary research community. An extensive University Graduate College Programme offers students training in a range of skills that contribute not only to the efficient management of their research studies but also to their personal development and future employability. In recognition of these activities, Cardiff University was short-listed by the Times Higher in autumn 2010 for Outstanding Support for Research Career Researchers.

During the assessment period, 15 were awarded PhDs and 5 awarded MDs. Each student is allocated to one of the Institute's four research programmes, providing students with a sense of inclusion within the Institute's research, interaction with junior and senior researchers, and knowledge of research processes important for career development. Students have a dedicated Institute Post Doctoral Student Representative who sits on the board of the School Postgraduate Research Degrees Committee, and who also oversees the student induction programme. The Institute has developed a maternity policy for PGR students that has been adopted and implemented across the School of Medicine, to ensure students are not financially disadvantaged if they need to take a maternity break from study.

Students who complete their PhDs at the Institute have a track record of securing related employment post study. For example:

- C. Waldron, PhD awarded 2012; Trial Manager, South East Wales Trials Unit.
- L. Rooshenas, PhD awarded 2012; Research Associate, Bristol University
- P. Bravo, PhD awarded 2012; Research Associate, Cardiff University.
- J. Crocker, PhD awarded 2011; Research Associate, University College London.
- M. Durand, PhD awarded 2010; Lecturer in Health Psychology, University of Hertfordshire.
- M. Edwards, PhD awarded 2011; NISCHR Post-doc Research Fellow, Swansea University.
- N. Francis, PhD awarded 2010; Senior Clinical Research Associate & NISCHR Post-doc Fellow, School of Medicine, Cardiff University.

d. Income, infrastructure and facilities

A total of £49M of research and infrastructure income has been secured since January 2008, equivalent to £9.8M per year and a 48 per cent increase over the total annual income figure for the RAE2008 period. Major funding has been won from the MRC, DoH (Policy Research Programme, Service Delivery and Organisation Programme, Health Technology Assessment), Health Foundation, NIHR, Wellcome Foundation, EU FP6 and FP7:

- Centre for the Improvement of Population Health through e-Records Research (CIPHER). C. Butler, D. Fone, S. Paranjothy (co-applicants; led by Swansea University) £4.3M total (£415K to Cardiff), MRC.
- Family Nurse Partnership. M. Robling, K. Hood, M. Bekkers, A. Kemp, K. Hawthorne, C. Owen-Jones, C. Butler, L. Lowes. £4.19M, Department of Health. Oct 2008 – Feb 2013.
- Healthy Eating and Lifestyle in Pregnancy (HELP). S. Simpson, R. Playle, M. Busse, C. Owen-Jones, R. Newcombe, N. Williams. £1.04M, MRC. Jan 2010 - Jan 2013.
- Oral Steroids for Resolution of otitis media with effusion (OME) In Children (OSTRICH). C. Butler. £1,002,759, NIHR. Dec 2012 - Nov 2015.
- Probiotics for Antibiotic Associated Diarrhoea in care homes: establishing the platform and a

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randomised controlled trial (PAAD). C. Butler. £1.47M, NIHR. 2010-14.

- The Healing Foundation Centre for children's burns research. A. Kemp. £1.78M total (£659K to Cardiff), Healing Foundation, Jul 2012 – Jun 2014.
- Weight Loss Maintenance in Adults (WILMA). S. Simpson, E. Owen-Jones, G. Elwyn, K. Hood, S. Rollnick. £1,810,793, NIHR, HTA. 2010-15.

Infrastructure and facilities

Co-located with the Institute, the South East Wales Trials Unit (SEWTU) draws together existing expertise in trials and other well designed multi-centre studies to form an experienced team to support excellence. SEWTU is UKCRC-registered, demonstrating the ability to undertake large, multi-centre trials and other well designed studies to the highest standards. The Unit currently runs 42 studies, with a combined value of more than £54M. The Unit aims to:

- Increase the number of high quality trials in health and social care led by Welsh investigators;
- Provide high quality co-ordination of multi-centre trials and other well designed studies across Wales, the UK and beyond;
- Develop portfolios of expertise that are recognised both nationally and internationally;
- Enhance collaborative working within the research and development infrastructure for Wales.

The Participant Resource Centre (PRC) funded by Biobank UK (£1.36M) provides support to several national and international studies including Biobank Cymru (£2.5M). Since its opening in March 2007, the PRC has answered over 95,000 calls and dealt with over 171,000 items of mail, resulting in over 50,000 participants being recruited to the study. The Biobank experience places the Institute at the forefront of methodological development for the newly emerging field of large-scale epidemiology.

The Institute is home to a number of Registered Research Groups, funded by Welsh Government / NISCHR through its Clinical Research Infrastructure to increase the quality and quantity of health research taking place in Wales and maximise the grant-generating power. These include:

- *Wales School of Primary Care Research (WSPCR)* (led by Butler), a Welsh Government collaboration between the disciplines of general practice, pharmacy, optometry, nursing and dentistry, based at the Cochrane Institute. Since 2008, the WSPCR has contributed to winning £10.9M in research income (WSPCR led) and to 92 peer reviewed research papers.
- *Public Health Improvement Research Network (PHIRN)* (led by Moore). PHIRN aims to increase the quantity and quality of public health improvement research that is relevant to policy and practice. During the assessment period, PHIRN have supported 44 projects with a total value of £16,511,684.
- *Patient Safety and Healthcare Quality Research Group (PSHQRG)* (led by Edwards) PSHQRG aims to realise the potential of Welsh quality and safety policy and healthcare improvement initiatives through a programme of empirical research, to enhance the evidence-base to inform future activity in Wales, the UK, and internationally. PSHQRG has a research portfolio of 21 research studies, totalling £3.4M since its inception in 2010.
- *Epidemiology & Screening Research Unit (Epi-Screen)* (led by Paranjothy) Epi-Screen is a pan Wales epidemiology and screening research group that aims to build on existing academic partnerships, utilise electronic data-linkage and exploit new methods for collection of health and environment data. Since 2010, Epi-Screen has accumulated a portfolio of 23 research studies (research income £9.9M) and published 80 peer-reviewed research papers.

e. Collaboration or contribution to the discipline or research base

In addition to the numerous national and international collaborations by individual researchers, the Cochrane Institute participates actively in collaborations at university, national and international levels. At an institutional level, the Institute is one of seven core participants in the Sustainable Places URI supported both at the university and school level (see Research Strategy section). Strong links are held with SEWTU (Hood, Robling, Simpson, Butler) and with the *DECIPHer*, School of Social Science (Moore, Butler, Fone).

1. At a local level, the Institute is involved (Moore on Steering Board) with *South East Wales Academic Health Science Partnership (SEWAHSP)*, the regional arm of NISCHR Academic Health Science Collaboration in South East Wales, formed by Higher Education Institutions and

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NHS Organisations to reduce fragmentation in R&D and accelerate health improvement.

- At a *national level*, the Cochrane Institute is the Cardiff home to the *Wales School for Primary Care Research (WSPCR)*, a virtual school and partnership between the Universities of Cardiff, Swansea, South Wales and Bangor, and funded by NISCHR, Welsh Government. It is a multi-disciplinary collaboration of primary care disciplines.

Participation in the Peer-Review Process

All members of staff are involved in peer-reviewing, in the sense that they serve as ad hoc reviewers for journals and/or Research Councils, or as editorial consultants/editorial board members for journals. Here we limit ourselves to committee memberships of grant-awarding agencies and significant roles played in other major bodies during the assessment period.

Funding Agencies

Medical Research Council (Butler, Efficacy and Mechanisms Board member); National Institute for Social and Health Care Research (NISCHR Wales) Research for Patient Benefit Funding Board members (Francis, Hood, Wood); National Institute for Health Research (NIHR) Public Health Research Programme (Moore, Research Funding Board member); Economic and Social Research Council (Moore, College of Experts member).

Positions of Influence

Through their research prominence, many A2 researchers have been appointed or elected to positions of influence at local, national and international levels, as illustrated by the following list: Clinical Platform of the EU FP6 funded Genomics to combat Resistance against Community Acquired LRTI in Europe (Butler, lead); British Psychological Society (Brain, chartered member); European General Practice Respiratory Infections Network (GRIN) (Butler, Francis, Hood, members); European Society for Clinical Microbiology and Infectious Diseases (ESCMID) (Butler, Francis, Hood, members); Faculty of Public Health Research Committee (Moore); International IPDAS collaboration (Elwyn, Co-Chair; Edwards, Steering Committee member); Irish Health Research Board (Dunstan, member); National Heart Forum (Moore); National Prevention Research Initiative Scientific Committee (Moore); NIHR Fellowship Board (Dunstan, member); NISCHR (Butler, Clinical Director); NSPCC Health Liaison Committee (Kemp); Royal College of Paediatrics and Child Health and Royal College of Radiologists joint national guideline working group (Maguire, member); Royal Society of Medicine NHS and national advisory committees (Kemp); Spatial and Spatio-temporal Epidemiology (Dunstan, Associate Editor); Translational Research on Antimicrobial Resistance and Community acquired infection in Europe (Butler, board member); Wales Institute of Mathematical and Computational Sciences (Dunstan, Farewell, Fone); Wales School of Primary Care Research (Butler, Director); Welsh Assembly Government's Health Protection Committee (Palmer, Chair); WHO Burden of Disease from the indoor environment (Matthews); UK National Expert Panel on New and Emerging Infections (Butler, Palmer, expert members); UKCRC Directors of Registered Trials Units group (Hood, member).

Editorships and Associate Editorships

Antibiotics (Butler, Editor in Chief); BMC Family Practice (Francis, Associate Editor); BMJ (Butler, International Advisory Board member); Journal of Clinical Skills (Butler, International Advisory Board member); Cochrane Collaboration's 'Consumers and Communication Review Group' (Edwards, co-editor); Statistical Methods in Medical Research (Farewell, Newcombe, Editorial board members).

Distinguished Fellowships

During the assessment period the following were recognised in the form of distinguished fellowships: MRC Methodology Fellowship (Farewell); NISCHR Health Sciences Fellowship (Francis); Royal College Physicians (Kemp); Royal College of Paediatrics and Child Health (Kemp); Royal College of Radiologists (Newcombe, Honorary member); Inaugural NISCHR Senior Faculty (Butler, Hood).

Major Prizes and Awards

MRC Centenary Award (Farewell); Queen's Anniversary Prize 2010 – Violence and Society Research Group (Newcombe, contributor); OBE (Cohen, Elwood); George Engel Award 2011 (Rollnick); UK Faculty of Public Health 2008 Alwyn Smith Prize (Palmer); BMJ Improving Health Awards 2013 – Cardiff Child Protection Systematic Reviews / Early Years team awarded BMJ Child Health Team of the Year (Kemp, Maguire); and IMPAC3T and STAR studies were both on final shortlists (2009 and 2013) for the BMJ Paper of the Year (Butler, Hood, Rollnick).