

Edinburgh Health Services Research Unit

Welcome to our **July 2014 Update**. Since our last report in November 2013, the unit has continued to grow in both size and scope. We will soon be expanding our statistics team to meet the demand for methodological advice. We have welcomed Safe Haven Project Manager—Fiona Strachan and two Coordinators—Helen Storkey and Chris Duncan, and SHARE SE Node Coordinators—Ellen Drost and Rebecca Skillen, and Research Officer—Morag Place to the HSRU team.

In the 6 months since our last report HSRU staff have been successful applicants or co-applicants in 14 new research grants, (compared to 21 in the whole of 2013 (p11) and have authored 22 new peer-reviewed publications (with a further three accepted for publication), (compared to 33 in the whole of 2013) (p12). We have formed collaborations both within our constituent universities nationally and internationally. In this short report we highlight some of the projects with which we are involved and explain how we aim to facilitate health services research throughout Lothian.

About HSRU....page 2; Staff news....pages 4—5; Safe Haven/ Digital Health Institute....page 3; *Spotlight* on Material and Fetal Research....pages 6-7; CARC and NMAHP news....pages 8—9; SHARE....page 10; New Grants....Page 11; Publications....page 12.

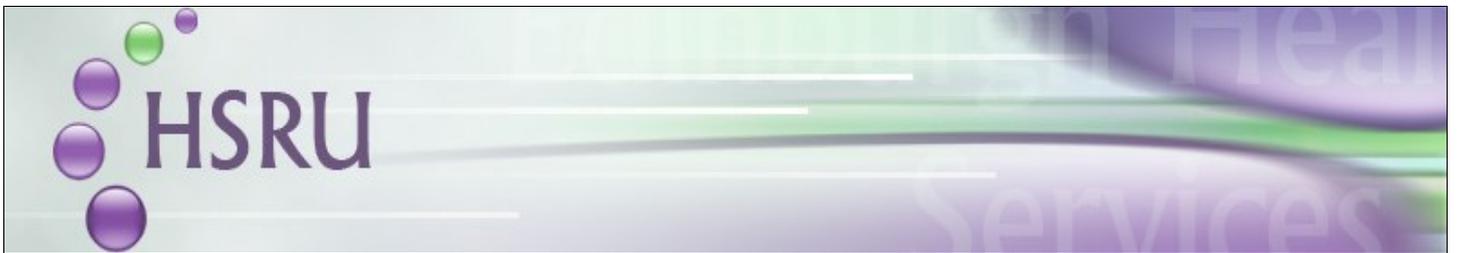


Asthma

HSRU staff have been pivotal in the leading the work of our Asthma UK study on the cost of illness of asthma in UK and in the four individual countries, by looking at various data sources to find health, social and societal costs. University of Edinburgh is leading the project for England, Northern Ireland, Scotland and Wales, under the leadership of Prof Aziz Sheikh and in collaboration with Universities of Queens, Swansea and London. Mome Mukherjee is a researcher and co-ordinating the project, Andrew Stoddart is the health economist and Brian McKinstry is a collaborator. A report will be produced by September 2014. This work will subsequently feed into creating a UK Asthma Observatory (UKAO). UKAO is one of the strategic platforms of the recently launched the Asthma UK Centre for Applied Research (AUKCAR), awarded to University of Edinburgh, with Queen Mary University of London as a key partner, with a network of collaborators UK-wide. The UKAO will be set up under the auspices of The Farr Institute as a demonstrator case.

HSRU staff have also been involved in a PhD studentship application to AUKCAR to study the prevalence and healthcare costs of co morbidities of asthma, which covers two strategic platforms of AUKCAR, namely UKAO and the UK Postgraduate Training Scheme for Asthma Researchers.





Edinburgh Health Services Research Unit

Edinburgh Health Service Research Unit (HSRU) is built on alliances between NHS Lothian and the University of Edinburgh, Edinburgh Napier University and Queen Margaret University, with NHS funding from Health Sciences Scotland. We focus on research that will

*“advance the planning, provision, effectiveness and efficiency of health care services with the overall aim of improving the healthcare of the public through enhanced clinical and organisational practices and (both) health and public policy.” **

What can HSRU offer? Our experienced staff aim to promote and nurture health services research by supporting and advising research teams and clinical services and by providing expertise in project planning, grant applications, research methods, statistics, record linkage and health economics.

HSRU will support the NHS to provide evidence-based health services by:

- working with service planners, providers and academic groups to identify opportunities for research in the context of service redesign;
- supporting initiatives to increase local capacity and capability in health services research;
- seeking funding from national and international sources for research relevant to health service redesign;
- developing and support a critical mass of projects with particular emphasis on studies which could be developed into substantive research areas;
- promoting collaborative research with other national and international partners sharing a common theme.

We aim to achieve these objectives through collaborating with NHS services and academic research groups, providing expert advice and input at the research planning and grant application stage, partnering with research teams and providing specialist services such as health economics, statistics or record linkage for particular studies on a fee for service basis following substantive grant awards.

**(Shi, L. (2008) Health Services Research Methods (2nd edition) Baltimore: Thomson: Delmar Learning. p.21).*

Recovery following a stay in critical care

The **RELINQUISH** study: There has been some development in implementation of the findings from Dr. Pam Ramsay’s research (Clinical Academic Research Career [CARC] Advanced Practitioner, Critical care (CARC) Scheme site) in recognition that survival following critical illness is associated with significant physical and psychosocial sequelae.

The RELINQUISH study is a longitudinal qualitative study of perceived healthcare and informal support needs among survivors of critical illness at up to one year following hospital discharge. Importantly, the findings from this study have contributed significantly to a recently completed novel telehealth resource in the form of a website to support recovery among patients and families following critical illness (EPIC: 13/SS/0040). This resource has involved widespread consultation with patients and families. The RELINQUISH findings have also contributed to a recently funded CSO study on acute hospital readmission among this patient group (PROFILE: NR/1403ABS).



THE UNIVERSITY
of EDINBURGH



Developing Research Capacity and Capability

The Farr Institute and NHS Lothian Safe Haven

HSRU is leading the development of the Lothian NHS Research Safe Haven which will make the large, complex datasets available in clinical records available for research in a safe, controlled manner. Janet Hanley is leading this development with the project manager, Fiona Strachan and two co-ordinators (Helen Storkey (0.7wte) and Chris Duncan (0.3wte)) who will work with researchers and provide technical expertise, with programming and administrative support from HSRU. The Lothian Safe Haven will work as part of a Federated Network of NHS safe havens in the large NHS Boards, ISD (EDRIS) and the Farr Institute, which will also provide access to a UK wide network.



Initial work includes developing the ability to search the records of SHARE register volunteers, support of pilot projects including High-STEACS and the documentation and curation of specialist datasets held within NHS Lothian, the University of Edinburgh and NHS Borders.

Digital Health Institute has now opened for business.

The Scottish Funding Council has provided £10m over five years to support the development of a Digital Health Institute. The project is a collaboration between University of Edinburgh, Glasgow School of Art, NHS24 and a consortium of other universities. The HSRU through Brian McKinstry was instrumental in successfully applying for funding for the Digital Health Institute. Now that the institute is up and running Brian McKinstry provides advice on health matters to the new organisation.

HSRU has also been the recipient of one of the first grants from the DHI exploring the use of telehealth to manage home-ventilated patients.



Who does what in HSRU?

HSRU is a dispersed organisation with contact and planning maintained with monthly teleconferences/ meetings. Dedicated HSRU staff (marked below by *) are accommodated within departments which will give them appropriate academic or clinical service support. Other staff contribute to the development and running of HSRU on a sessional basis or as part of their wider roles.

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Edinburgh Clinical Trials Unit, University of Edinburgh, Outpatients Level 2, Western General Hospital, Crewe Road South, Edinburgh EH4 2XU.

	Background / Role	Organisation/ link organisation	Role in HSRU
Brian McKinstry	General Practice	University of Edinburgh	Clinical Lead and Director HSRU. Advice on trials design, recruitment, GP link
Janet Hanley	Nursing	NHS Lothian R&D/ Edinburgh Napier University	Mixed methods research, qualitative research, ethics, governance; leads NHS team
Chris Weir*	Statistician	University of Edinburgh	Trial design, statistical methods
Vacancy*	Public Health Nursing	NHS Lothian/ Edinburgh Napier University	Qualitative research, public health nursing research, evidence based practice
Juliet MacArthur	Nursing	NHS Lothian Nursing Directorate/University of Edinburgh	Leads the implementation of the NMAHP Research Framework, link with Nursing and NHS Quality Strategy
Andy Peters*	Clinical Psychology/Allied Health Professions	NHS Lothian	Research capacity building in AHPs, leads and develops AHP research
Mome Mukherjee*	Senior Data Analyst	University of Edinburgh	Advice on availability of routine data and possibility of data linkages.
Joel Smith*	Health Economist	University of Edinburgh	Advice on health economics
Andy Stoddart*	Health economist	University of Edinburgh	Advice on health economics
Lorraine Smith	Operational Lead	Edinburgh Clinical Trials Unit	Leads operational and administrative team
Pamela Sinclair*	Administrator	Edinburgh Clinical Trials Unit	Minutes, project database.
Ellen Drost	SE Node Coordinator	NHS Lothian	SPCRN / SHARE
Rebecca Skillen	SE Node Coordinator	NHS Lothian	SPCRN / SHARE
Morag Place	SE Node Research Officer	NHS Lothian	SPCRN / SHARE
Fiona Strachan	Project Manager	University of Edinburgh	NHS Lothian Safe Haven
Chris Duncan / Helen Storkey	Coordinator	NHS Lothian	NHS Lothian Safe Haven

Other Activities

HSRU staff also facilitate research at regional and national levels by providing advice to other researchers and grant-funding bodies.

Brian McKinstry is Chair of independent trial steering committees for the following studies -

- Health Lines Study: telemetric support for depression and high blood pressure (Southampton)
- The EDGE COPD study: Telemetric management of COPD (Oxford)
- DQIP study: The impact of providing information on high risk prescribing to practices, a cluster RCT (Dundee)
- Better guidelines for better care: accounting for multi-morbidity in clinical guidelines. This is a NIHR funded project to explore the feasibility of developing guidelines for people with multi-morbidity (Dundee)

He is currently HSR section editor of Biomedcentral Family Practice. He is a member of the CSOs HSR committee. The telehealth and telecare board has now been incorporated by the wider Innovation group led by Alex McMahon in NHS Lothian. Brian McKinstry sits on this group.

Dr **Juliet MacArthur**, Chief Nurse Research, is a member of the Chief Nursing Officer's Strategic Sub Group for Clinical Academic Collaboration for the 'Setting the Direction' Strategy; a member of the Nursing, Midwifery and Allied Health Professional (NMAHP) Research Unit Advisory Group for Clinical Academic Research Careers; a Steering Group Member for the Scottish Research Nurse and Co-ordinator's Network; and an Honorary Fellow in the School of Nursing, University of Edinburgh.



Juliet has been awarded PhD from Edinburgh Napier University for her thesis 'Embedding compassionate care in local NHS practice: a realistic evaluation of the Leadership in Compassionate Care Programme'. This was a longitudinal qualitative study using Pawson & Tilley's (1997) Realistic Evaluation Methodology and was conducted 2008-2013. She was awarded a fees studentship by NHS Lothian Research and Development and the Centre for Integrated Healthcare Research.

Dr Joel Smith is a member of the NHS Lothian Formulary Committee.

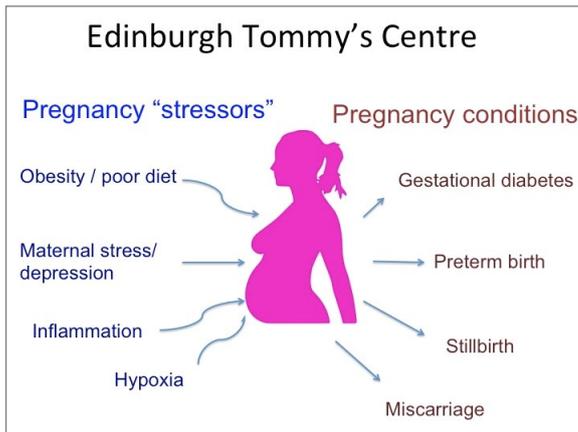
Dr Christopher Weir has been appointed as a member of a funding panel: the NIHR Health Services & Delivery Research (HS&DR) Commissioned Workstream Board. He is an Associate Editor of the journal "Clinical Trials".



Spotlight on HSRU Support

▶▶▶▶ Maternal and Fetal Research

The HSRU provides both methodological advice and facilitation for midwifery research capacity building to support Maternal and Fetal Research in Lothian.



The Edinburgh Tommy's Centre was established in April 2008 and is an integral part of the MRC Centre for Reproductive Health which opened in April 2011. The Centre, led by Professor Jane Norman, aims to be 'an internationally outstanding Maternal and Fetal Research Unit, which has a real prospect of making major improvements to the health of pregnant women and their babies'. It has ongoing grant funding of over £13 million. Much of the research is directed through a dedicated metabolic antenatal clinic, which provides the infrastructure for their work on maternal obesity. Other research focuses on the pregnancy 'stressors' of maternal depression/stress, inflammation and hypoxia. These pregnancy stressors are largely responsible for the clinical conditions of gestational diabetes, preterm birth and stillbirth, all of which have devastating effects on pregnant women and their babies.

The researchers aim to understand how these pregnancy stressors cause these clinical conditions and to develop preventive and therapeutic strategies.

1. Methodological Advice

In the last year HSRU experts have given methodological advice as part of protocol development and grant applications on the following studies:

AFFIRM (Prof Jane Norman) - do strategies to improve detection and management of decreased foetal movement and foetal growth retardation reduce rates of stillbirth? Dr Chris Weir is a co-applicant and has advised on the stepped wedge study design.

BLOSSOM (Dr Fiona Denison) - feasibility study on the use of telemetry in women with raised blood pressure in pregnancy. Prof Brian McKinstry is co-applicant and has provided methodological advice on telemetry research.

STOPPIT 2 (Professor Jane Norman) - Arabin pessary in the prevention of preterm birth of twins. Health Economic Advice from Dr Joel Smith.

STRATEGY (Dr Fiona Denison) - Feasibility study for the use of telemedicine for pregnant women with diabetes. Methodological advice on telemetry research from Prof Brian McKinstry.

Feasibility study to examine the appropriate setting for induction of labour (Dr Sarah Stock). HSRU contribution is health economic advice from Dr Joel Smith.

2. Midwifery Research Champions

Dr Juliet MacArthur worked with Professor Jane Norman and Dr Fiona Denison, Senior Lecturer in Maternal and Fetal Health / Honorary Consultant to secure funding from the Research and Development Office to establish the 'Midwifery Research Champions' initiative. The aims of the scheme are to promote and enhance pregnancy related research that will improve the health of women and babies by:

1. maximising recruitment to existing clinical studies.
2. providing professional development and research opportunities to a cohort of midwives.
3. Identifying key midwife-focussed research questions that will enhance the care and experience of women and babies.
4. promoting a research culture within maternity services.



Prof J Norman, Dr F Denison



Developing Research Capacity and Capability

The five 'Research Champions' are midwives working in clinical practice or undertaking research: Sue Shade, Alice Keely, Rita Seidler, Naomi Waddell and Louise Croan. They, along with Juliet MacArthur, meet monthly with the Research Midwives from the Tommy's Centre and have produced summary information on clinical trials, which has been made available to all midwives in Lothian to help them signpost research to pregnant women during their antenatal and clinic appointments. This information is updated every 6 months, reflecting the dynamic nature of the Tommy's Centre research programme. They are currently conducting their second survey of all NHS Lothian midwives focussing on their knowledge and confidence of discussing research.

GEM 11	0-6 wks (as soon as ectopic diagnosed) A study looking at the effectiveness of treatment by adding a drug gefitinib to the current drug treatment methotrexate, this might lead to fewer women requiring an operation to treat their ectopic pregnancies.	
EMPIRE	A multi-centre, UK wide, randomised control trial between Clinical Features Monitoring and Therapeutic Drug monitoring to find the safest method of caring for pregnant women with epilepsy and their babies.	
EmpowAr	12-16 wks A study to see if taking metformin during pregnancy to women with a BMI of 30 or above improved mother and baby's health.	
3 Tesla	After 20 wk scan A study to optimise the ways in which we use MRI to take pictures of women and their babies during pregnancy. Looking especially to learn more how the placenta works, blood flows through placenta and womb, how mothers adapt to pregnancy and the baby's growth and development.	
Imagin'2	A study which uses MRI scans to look at the brain growth and development, and placental function in babies of women with diabetes compared to babies of non-diabetic women.	
Mermaid	After 20 wk scan A study to find out whether new imaging techniques can detect differences in the amount of oxygen within the womb between normal and pregnancies where the baby is not growing well. Controls can also be recruited.	
AFFIRM	A study to test the hypothesis that rates of stillbirth will be reduced by the introduction of a package of care consisting of strategies for increasing women's awareness of the need for prompt reporting of decreased fetal movements (leaflet), followed by a management plan for identification of placental insufficiency with timely delivery in confirmed cases.	
CHARM	@ ELCS The aim of this study is to find out if chlamydia trachomatis infection is associated with miscarriage by looking at blood samples for past infection and swab samples for current infection.	
HOoM	@ ELCS A study to gain more knowledge of the process of human ovarian follicle growth and how this process relates to the maturation of the egg that allows successful fertilisation and a healthy pregnancy.	
Tissue Bio Bank	The Edinburgh Reproductive Tissue Bio Bank (ERTBB) has been set up to aid medical and scientific researchers working in the field of reproductive biology, with the long term goal of improving the health, diagnosis and treatment of women and their un-born infants. A range of samples are collected including: maternal blood, placenta, membranes attached to the placenta and umbilical cord and cord blood. At caesarean section additional samples can be collected including a small piece of: myometrium, fat and ovarian tissue.	

For further information/referrals/advice please email researchmidwives@nhslothian.scot.nhs.uk or telephone 0131 242 2480 or 0131 242 3001 Version 2 June 2014

3. Midwifery Research Capacity Building

Two of the Midwifery Research Champions have secured PhD Studentships at Edinburgh Napier University and commenced their studies in Autumn 2013. Naomi Waddell, Community Midwife in West Lothian is undertaking a study on the impact of childhood trauma in pregnant women who are affected by substance misuse. Alice Keely is examining antenatal care for women with a BMI >40 in a study titled 'Obesity, pregnancy and experiences of antenatal services'. This research was influenced by a previous study on the assessment of barriers to breast feeding in obese women led by Dr Fiona Denison that was funded through the HSRU in 2010 (HSR014).

Discussions are underway with the Research and Development Office and partner academic institutions to establish a Clinical Academic Research Careers (CARC) Pathway for midwives, focussing on continuity of antenatal care. This will centre on a pilot initiative of a revised model of antenatal care being conducted in Leith. NHS Lothian has already established CARC Schemes in critical care, substance misuse, weight management and dementia. The Scheme would involve two clinical/academic appointment at post doctoral and PhD level. Dr Juliet MacArthur is supporting this work with Maria Wilson, Chief Midwife.

A number of midwives in the Lothian Birth Centre have been involved in an innovative research study 'Illuminating Waterbirths' being led by Dr Fiona Denison that has led to the development of a flexible mirror with integral torch. This project has led to an increase interest in involvement wider maternal and fetal research by clinical midwives.

The Weight Management/ Telehealth CARC Scheme site is working up a proposal looking at improving methods of maternal weight monitoring/management post-partum in collaboration with Reproductive Health and diabetes services. This will form the focus of a part-time PhD for a NMAHP. Dr Janet Hanley and Andy Peters are supporting this development.



Clinical Academic Research Careers

Lothian Nursing, Midwifery and Allied Health Professions (NMAHP) Research Framework: Progress and Achievements



Research Futures is a new annual training fund provided by NHS Lothian Nursing, Midwifery and Allied Health Professions (NMAHP) Directorate to support postgraduate research training for NMAHPs employed by the Board. It is intended for staff at the early stage of their research career development, regardless of the stage of their clinical career development.

Management and implementation is supported by Edinburgh HSRU.

In financial year 2013-14 support for two types of part-time postgraduate research training was made available:

- Research apprenticeships (i.e. 26 days over a maximum of 12 months gaining first-hand experience on an agreed research-related project whilst being mentored by an active Principal Investigator)
- Research Masters degree study (i.e. MRes/MPhil/MClinRes or similar)

Five applications were received and three applicants invited to interview. All three were offered funding as follows:

Profession/grade	Clinical area	Type of training supported	Support offered	Supervisor/Research mentor	Summary of plan of study
Principal Prosthetist	Prosthetics Dept, SMART Centre	2 year part-time MClinRes at Queen Margaret University	0.4 WTE salary at top of Band 6 plus on-costs for 2 yrs. Access to expenses account limited to £5,000 pa.	Dr Judith Lane, QMU	To identify the barriers and facilitators for outpatient attendance at SMART, to make recommendations for strategies to reduce DNA's, and to pilot and audit the recommendations to determine whether they are effective in reducing DNA rates. This will be a mixed methods study.
Charge Nurse	Paediatric ICU, RHSC	Research Apprenticeship	26 days salary at top of Band 6 plus on-costs over max 12 months. Access to expenses account limited to £500	Dr Milly Lo, Consultant Intensivist, RHSC	Drugs used for nurse led endotracheal tube (ETT) re-taping & their impact on post-procedure ventilatory support weaning. Hypothesis is that giving additional muscle relaxant for ETT re-taping delays weaning of mechanical ventilation. This is a prospective observational study with primary outcome being the length of mechanical ventilation.
Staff Nurse	Paediatric ICU, RHSC	Research Apprenticeship	26 days salary at Band 6 Pt 28 plus on-costs over max 12 months. Access to expenses account limited to £500	Dr Milly Lo, Consultant Intensivist, RHSC	Is nurse led endotracheal tube (ETT) re-taping practice safe and time efficient? Early identification of the need to re-tape ETT and prompt re-taping should prevent unplanned extubation. This study aims to determine if current re-taping practice is safe and time efficient, and to determine if there are any clinical factors that may affect the need for frequent re-taping. A prospective study of consecutive re-taping episodes of all intubated patients over a 12 month period.

Building NMAHP Research Capacity

2013-2014 has seen an increase in the numbers of nurses, midwives and allied health professionals undertaking doctoral studies. This now stands at 16 in progress, nine of whom have commenced since 2013. The profile includes two midwives, five general nurses, two psychiatric nurses, two physiotherapists, two dietitians, one speech and language therapist, one occupational therapist and one podiatrist. There are also two nurses undertaking Masters by Research through the Early Clinical Career Fellowships. Four of the PhD students are funded through the Lothian Clinical Academic Research Careers (CARC) Scheme. It is expected that five more staff will commence doctoral studies in September 2014.

In 2013 one nurse completed her PhD and four AHPs are due to submit during 2014.

To support this cohort of students a NMAHP Doctoral Network has been established by Dr Juliet MacArthur, Chief Nurse Research and Andy Peters, AHP Research Facilitator. An inaugural meeting was held on 1st April and it planned that the network will meet three times a year.



L – R NMAHP Doctoral Network: Jo Gordon (physio), Kenny Davidson (nurse), Elizabeth McAnally (dietitian), Elspeth Donaldson (physio) and Alison Wood (nurse)



Six nurses commenced and are near completion of the innovative Masters of Nursing in Clinical Research which is a collaborative programme between University of Edinburgh and NHS Lothian. This programme is 50% theory, 50% practice and is funded by the Scottish Government. Two of the candidates have secured PhD studentships: Katie McGuigan will be based in the Anne Rowling Regenerative Neurology Clinic and has an award from the Stroke Association and Adam Lloyd will be conducting his research in the Emergency Department at the Royal Infirmary of Edinburgh and was awarded the Gardner Scholarship at the University of Edinburgh. A second cohort of six students will commence their studies in September.

Other Capacity Building News

Jean Bruce was appointed as Clinical Research Nurse Manager in February 2014 and reports to Dr Juliet MacArthur. Her role is to provide operational management and professional support to the 160 clinical research nurses working in Lothian (employed either by the NHS or University of Edinburgh).

Dr Juliet MacArthur, Dr Janet Hanley and Andy Peters were involved in a strategic review of the Lothian NMAHP Research Framework 2011-15 in March 2014. This review is also linked to a piece of collaborative working with Dr Jo Cooke, Programme Director and Capacity Lead of the Yorkshire and Humberside Collaboration for Leadership in Applied Health Research and Care (CLAHRC), which followed a visit to Sheffield in January 2014. Dr Cooke is acting as an external advisor to the Lothian NMAHP Framework Group on future directions for capacity development. This is being facilitated through a number of meetings during 2014 and review of a series of capacity development indicators that she has formulated based on discussions



The Scottish Health Research Register (SHARE) is a NHS Research Scotland initiative created to establish a register of up to 1,000,000 adults (25% of the Scottish adult population) who consent to the access and use of their electronic health records in order to identify them as potentially eligible for research projects.



Recruiting for Research, Improving our Health

SHARE will greatly enhance the efficiency and effectiveness of recruitment into health research projects in Scotland.

- The direct volunteer contact allowed by SHARE registration means that the assessment feasibility and contact process is both rapid and efficient.
- By gaining consent to contact people that have already expressed an interest in clinical research recruitment, retention rates can be enhanced.



UPDATE

SHARE has been funded by the CSO for another two years and has now been incorporated into the research infrastructure. Brian McKinstry is co-director.

Currently registrations are at 30,000. The recruitment target by end of the financial year is 60,000.

An application has been made to the Wellcome trust for goSHARE (genetics of share) to be launched in Grampian and Lothian. This subgroup of SHARE registrants have also agreed to any spare blood left over from routine testing to be stored for future genetic research.

www.registerforshare.org

SHARE contacts for Lothian are:

Ellen Drost (Ellen.Drost@ed.ac.uk) and
Rebecca Skillen (Rebecca.Skillen@nhs.net)

Title: Phase I feasibility study of the Functional Fitness MOT: engaging older patients of a physiotherapy service in healthier levels of physical activity. **Main Contact:** Andy Peters, NHS Lothian. **Funder:** Edinburgh & Lothian's Health Foundation. **HSRU Contact:** Andy Peters. **HSRU Contribution:** Study design, co-investigator.

Title: Research Futures: NHS Lothian Nursing, Midwifery and Allied Health Professions Early Research Career Training Support Scheme. **Main Contact:** Andy Peters, NHS Lothian. **Funder:** Edinburgh & Lothian's Health Foundation (matched funding). **HSRU Contact:** Andy Peters, Juliet MacArthur. **HSRU Contribution:** Capacity development, and management/implementation of scheme.

Title: Baybee: use of live video streaming from neonatal unit to mothers in post natal ward. **Main Contact:** Sean Ainsworth, NHS Fife. **Funder:** Digital Health Institute. **HSRU Contact:** Janet Hanley. **HSRU Contribution:** Study design, co-grant holder.

Title: Eden m-Health Project: the effects of a mobile phone management intervention to improve lay community care workers' performance and health outcomes for chronically ill patients. **Main Contact:** Principal investigator - Prof. Anna Thorson, Karolinska Institutet (KI), Co-investigators - Dr. Salla Atkins, KI; Dr. Simon Lewin, Health Systems Research Unit, MRC and the Norwegian Knowledge Centre for the Health Services; Prof. Brian McKinstry, University of Edinburgh Mr. Arrie Odendaal, Health Systems Research Unit, SAMRC. **Funder:** Swedish Research Council, £142k. **HSRU Contact:** Brian McKinstry. **HSRU Contribution:** co-investigator.

Title: A multi-centred, stepped wedge, cluster randomised controlled trial to compare the clinical and cost effectiveness of a complex oral health care intervention and standard oral health care in stroke care settings: a Phase II pilot trial. **Main Contact:** Marian Brady, Glasgow Caledonian University. **Funder:** The Stroke Association. **HSRU Contact:** Chris Weir. **HSRU Contribution:** Design, Statistics, Randomisation.

Title: Multiple Sclerosis – Secondary Progressive Multiple Arm Randomisation Trial (MS-SMART): A multi-arm phase IIb randomised, double blind placebo-controlled clinical trial comparing the efficacy of 3 neuroprotective drugs in secondary progressive multiple sclerosis. **Main Contact:** Jeremy Chataway, UCL. **Funder:** MRC-NIHR EME. **HSRU Contact:** Chris Weir. **HSRU Contribution:** Design, Statistics, Randomisation, Trial management.

Title: Development of a software application for detection and monitoring of attentional deficits in delirium. **Main Contact:** Alasdair MacLulich, University of Edinburgh. **Funder:** MRC DCS/DPFS. **HSRU Contact:** Chris Weir. **HSRU Contribution:** Design, Statistics.

Title: Patient centred outcomes in stroke clinical trials: development, assessment and analyses. Workshop held in London 28th January 2014. **Main Contact:** Chris Weir. **Funder:** MRC HTMR. **HSRU Contact:** Chris Weir. **HSRU Contribution:** Coordinating methodology content of workshop programme.

Title: The potential of alternatives to face to face consultation in general practice, and the impact on different patient groups. **Main Contact:** Salisbury C, McKinstry B, Atherton H, Campbell J, Ziebland S. **Funder:** NIHR HDSR £456,537.30. **HSRU Contact:** Brian McKinstry. **HSRU Contribution:** co-investigator.

Title: Undiagnosed dementia and new institutionalisation: a study of 100 consecutive discharges from acute hospital to care homes. **Main Contact:** Juliet MacArthur. **Funder:** Gibson Trust, £10,000. **HSRU Contact:** Juliet MacArthur. **HSRU Contribution:** Lead Investigator.

Title: The effectiveness of mHealth interventions for maternal, newborn and child health in low- and middle-income countries: a systematic review and meta-analysis. **Main Contact:** Dr Claudia Pagliari. **Funder:** WHO. **HSRU Contact:** Mome Mukherjee. **HSRU Contribution:** Design and study.

Title: Fluoxetine Or Control Under Supervision (FOCUS) Trial. **Main Contact:** Gillian E Mead, University of Edinburgh. **Funder:** NIHR HTA (Recommended for funding, awaiting award letter). **HSRU Contact:** Joel Smith. **HSRU Contribution:** Health economic design and analysis.

Title: An open randomised trial of the Arabin pessary to prevent preterm birth in twin pregnancy (Stoppit-2 Trial). **Main Contact:** Jane Norman, University of Edinburgh. **Funder:** NIHR HTA (Recommended for funding, awaiting award letter). **HSRU Contact:** Joel Smith. **HSRU Contribution:** Health economic design and analysis.

Title: Feasibility study of the use of telehealth as the preferred mode of delivery of a family intervention for childhood obesity. **Main Contact:** Rajeeb Rashid, NHS Lothian. **Funder:** Edinburgh & Lothian's Health Foundation. **HSRU Contact:** Janet Hanley, Brian McKinstry. **HSRU Contribution:** Study design, study lead.

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- Hogg R, de Kok B, Netto G, **Hanley J**, Haycock-Stuart E. Supporting Pakistani and Chinese families with young children: perspectives of mothers and health visitors. *Child: Health, Care and Development* 2014; advance online publication doi:10.1111/cch.12154
- Fairbrother P, Ure J, **Hanley J**, McCloughan L, Denvir M, Sheikh A, **McKinstry B** et al. Telemonitoring for chronic heart failure: the views of patients and healthcare professionals - a qualitative study. *J Clin Nurs* 2014; 23(1-2):132-144.
- Milne H, van der Pol M, McCloughan L, **Hanley J**, Mead G, Starr J, **McKinstry B** et al. The use of global positional satellite location in dementia: a feasibility study for a randomised controlled trial. *BMC Psychiatry* 2014; 14(1):160.
- McKinstry B**, Sheikh A. The use of global positioning systems in promoting safer walking for people with dementia. *J Telemed Telecare* 2013; 19(5):288-292.
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