









A5	
Life-course Persistent Antisocial Behaviour Objective: The proposed research programme aims to build knowledge about life-course persistent antisocial behaviour.	Aim To study the psychological/social
Offenders having this disorder account for the bulk of violence. Hypotheses address: (a) developmental etiology, (b) how persistent antisocial behaviour is expressed in family life and the workplace, (c) how persistent antisocial behaviour is related to personality disorders, drug and alcohol dependence, and major mental	determinants of a behavioural disorder
disorders, (d) whether persistent antisocial behaviour leads to poor physical health, (e) how parental antisocial behaviour affects children. Methods: A birth cohort will be used. Analyses will ascertain relations between the study members antisocial status and variables drawn from extensive data gathered over many years about study members, their parents, their partners, and now their children.	Website Links Mental Health Cohorts (2.4)
Significance: The proposed research will generate (a) disconfirming or supportive tests of our published theory of antisocial behaviour, (b)	HRCS Coding
recommendations for tailoring the timing and content of interventions to fit offenders developmental histories, (c) documentation of the full scope of the health burden of antisocial behaviour, (d) information about the co-incidence of adult life problems for coordinating	Health Categories Mental Health - 100%
disparate service-delivery systems, (e) knowledge about origins of family violence, which can be used for prevention of partner and child abuse	Research Activity Code 2.3 Aetiology - 100%



Molecular profiling of epithelial ovarian and breast	Aim
cancer with simultaneous cDNA and CGH microarrays	To discover and
	evaluate biological
Advances in cDNA microarray technology now make it possible to	markers with
rapidly determine the expression ratios of thousands of genes within a single cancer. Analysis of these large data sets can discover	predictive value for
clusters of gene expression patterns that may determine new cancer	ovarian and breast
classifications or prognostic information. However, none of these studies have validated the candidate genes on large independent	cancer
sample sets. This proposal sets out to improve the current approach	Website Guidance
to expression profiling by 1) tightly integrating expression analysis	Biomarkers
with array CGH; 2) developing robust RNA amplification methods for expression analysis from microscopic biopsies; and 3) using tissue	Methodology
microarrays for high-throughput validation of candidate markers.	
These techniques will be used in two stages: 1) To carry out pilot projects that will investigate a series of platinum-resistant ovarian	Coding
cancers and high risk breast cancers to identify candidate clusters for	Lissible Osterseries
prognosis. 2) To validate the predictive value of smaller subset of markers from these clusters, using tissue microarrays of tumours	Health Categories
from patients in phase III clinical trials. The validated markers should	Cancer - 100%
have high utility of routine pathological assessment of patient	Research Activity Code
material.	4.1/4.2 Detection &
	Diagnosis - 50%/50%



Molecular mechanisms of steroid efficacy in inflammatory bowel disease.	Aim To study, in model
Crohn's disease and ulcerative colitis are common causes of gastrointestinal morbidity in the developed world. Gluco- corticosteroids remain the mainstay of treatment for active disease, in spite of real problems associated with drug toxicity, and efficacy.	systems and patient samples, the mechanisms of action
The molecular mechanisms involved in steroid efficacy in the gastrointestinal tract remain poorly characterised, although recent data implicate multi-drug resistance (P-glycoprotein 170) gene expression (MDR), gluco-corticoid receptor expression, together with allelic variation in a number of key immunoregulatory genes.	of steroid drug therapy for Crohn's disease
We aim to document the molecular mechanisms underlying steroid efficacy in the gastrointestinal tract.	Website Links Pharmacogenetics
Using a rat model, the effect of circulating gluco-corticoids in modulating gene expression in the gastrointestinal tract will be investigated. Expression of MDR genes, gluco-corticoid receptor	HRCS Coding
genes, alpha and beta, and transcription factor expression/activity will be investigated in steroid treated animals, animals which have undergone adrenalectomy, and sham-operated animals.	Health Categories Oral and Gastro - 100
Gene expression in the human gastrointestinal tract will be investigated using samples taken from healthy controls, and samples from patients with active ulcerative colitis, both steroid responsive and non-responsive.	Research Activity Cod 5.1 Treatment Development – 100%



Randomised controlled trial of the use of three dressing regimens in the management of chronic ulcers of the	Aim Clinical test of a new
foot in diabetes The study is determining the comparative effectiveness of older and newer dressing preparations in an observer-blind, parallel group,	dressing treatment for foot ulcers resulting from diabetes
randomised controlled trial. Three dressings are being assessed: 1.a simple, non-adherent traditional preparation (NA), 2. a widely used antiseptic preparation (Inadine), 3.a modern hydrofibre (Aquacel). The primary endpoint will be complete healing at 24 weeks. Secondary outcomes include costs, taking into account the cost of dressings, dressing frequency and professional costs. As professional time is partly determined by the frequency with which	Website Guidance Sequelae Quality of life
dressings are undertaken by the patient and/or their carer, this will be formally assessed - as will aspects of patient, pain, satisfaction and health-related quality of life. The completion of this study will provide	HRCS Coding
clinical data for three dressings used in routine clinical use, using clinical and patient relevant endpoints.	Health Categories Metabolic - 50% Skin – 50%
	Research Activity Cod 6.3 Treatment

Antidepressant drug therapy vs a community-based psychosocial intervention for the treatment of moderate postnatal depression: a pragmatic randomised controlled trial (RESPOND)

M11

The study will compare the effectiveness and cost-effectiveness of antidepressant drug therapy versus a community-based psychosocial intervention (Health Visitor delivered non-directive counselling) in the treatment of moderate postnatal depression. A two arm multi-centre pragmatic randomised controlled trial, with randomisation at the level of the individual woman, is proposed. Women who do not respond to the allocated therapy in their group will be offered the opportunity to either switch or combine therapies after the primary outcome has been measured (4 weeks for antidepressants, 18 weeks for counselling). Thus the research design allows women to receive both antidepressants and psychological therapy if required. In addition, the protocol allows for the dose of antidepressant to be increased or for a different drug to be prescribed. The primary outcome measure is the EPDS at 4 weeks, 18 weeks and 44 weeks. In addition, we will use the SF-36 as a generic measure of functional quality of life and the EQ5D for economic analysis.

Aim

Clinical comparison of drug therapy and psychological therapy for treatment of depression following birth

HRCS Coding

Health Categories Mental Health - 50% Reproduction - 50%

Research Activity Codes 6.1/6.6 Treatment Evaluation - 50%/50% /

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The psychosocial impact of dysarthria on the individual and their carers Dysarthria, a communication impairment, is experienced by approximately 20 – 30% of individuals in the early stages of stroke. There is little indication of what the impact of dysarthria is on the individual and their carer post stroke. The literature to date has focused primarily on the pathology and impairment elements of the disorder, which has supported the development of a range of impairment focused speech and language therapy interventions, whose success, in turn, is evaluated using impairment focused measures. We propose to develop an understanding of the impact of post stroke dysarthria by working with the patients and carers,	Aim To study needs and social impact in patients with communication impairments as part of a stroke
specifically focusing on their experiences of participation (including barriers and support) within family, social and community circles. This research will facilitate the development of patient focused functionally relevant outcome measures that will in turn encourage the expansion (and evaluation) of therapeutic interventions that address participation focused patient/carer identified priorities.	HRCS Coding Health Categories Stroke - 100% Research Activity Code 7.1 Disease Management - 100%



M15	
Pharmaceutical care for elderly patients shared between community pharmacists & GP's a randomised evaluation This project aims to investigate the effectiveness and cost implications of "pharmaceutical care" provided by community pharmacists to elderly patients in the community. The study design is a randomised multiple interrupted time series. We will recruit five general practices each associated with one to three community general practices each associated with one to three community	Aim To evaluate delivery of services by community pharmacies
pharmacies from each of the four PCGs in the East Riding - 20 practices and about 40 pharmacies in all. 7- patients will be recruited. We shall randomise the resulting four groups of practices, pharmacies and patients to begin pharmaceutical care in four successive phases. All four will be controls until they receive the intervention in a random sequence. The community pharmacists will receive training in pharmaceutical care for the elderly. Once trained, they will meet recruited patients either in the pharmacies (in a	HRCS Coding
consultation room or dispensary to preserve the patient's confidentially) or at home, in order to identify the drug-related problems, and design the "pharmaceutical care plan" in conjunction with both the GP and the patient. Pharmacists will implement, monitor, and update the plan. Until they receive process. The primary outcome measure is the Medication Appropriateness Index; secondary measures are quality of life, compliance, adverse events and patient knowledge. We shall also investigate the cost of treatment to the NHS, to patients and to society as a whole.	Health Categories Generic - 100% Research Activity Codes 8.1 Health Services - 100%
outcome measure is the Medication Appropriateness Index; secondary measures are quality of life, compliance, adverse events and patient knowledge. We shall also investigate the cost of	8.1 Hea

M16

Application of Modeling Techniques and Analysis of Uncertainty in the economic evaluation of health technologies

To investigate the areas of application of different modelling techniques in economic evaluations of health technologies, methods of models allocation and analysis of uncertainty in the economic evaluations

Methodology: Various techniques and (Decision trees, Markov models, Discreet Event Simulations; Neural Networks) to be applied in order to extrapolate, synthesise and/all analyse he available evidence in the most appropriate way and to inform the healthcare decision making. This have three main focuses:

1 Aspects of models validation in economic analysis - no explicit criteria for moral validation exists. Aspects of validation by using part of the primary data comparing the results with those from other studies and comparing the results from different models have been used.

2 The social welfare function, health costs cared decision makers (loss) function and their optimisation. - the social policy objective is to maximise the social welfare. Similar to all other policy areas the healthcare decision makers have the problem to identify the actual social way of welfare function even if only healthcare benefits are concerned. The main area interests are the solicitation of public views on the aspects of efficiency and equity and their application in the decision-making.

3 Analysis of uncertainty and the application of probabilistic sensitivity analysis to address uncertainty in the economic evaluations in the context of health care decision-making. - The use of prompt probabilistic sensitivity analysis to analyse the joint uncertainty in parameters is highly valued but its application in economic evaluations is still underdeveloped. Some of the areas of further research are the end of analysis of parameter uncertainty, then interaction and the inference based on Monte Carlo Simulations.

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Aim

To evaluate different economic models for assessing cost effectiveness of health technologies

Website Guidance Methodology Economic Evaluation

HRCS Coding

Health Categories Generic - 100%

Research Activity Codes 8.2 Health Services - 100%

THE PEOPLE'S DNA BANK: a national DNA banking and genotyping facility The objective of this project is to facilitate current and future work of investigators in the discovery and evaluation of associations between human disease phenotypes and genotypes. The aim of this project is to store safely and make widely available 13 case-control collections; to provide capacity to house and to make available other collections; and to improve access to high throughput genotyping at many loci. These aims and objectives will be achieved by collaborations. The principal umbrella organisation for this will be the People's DNA Bank (PDB). Scientifically, this bank will be directed collaboratively by investigators who deposit their samples in the bank. Operationally, we will develop, run and maintain integrated and flexible facilities for the receipt, processing and storage of subject samples; for DNA extraction, DNA amplification and genotyping; and for database management. Investigations will be undertaken into improvements in biological and biochemical amplification of genomes.	Aim To establish a resource for wide use by the research community Website Guidance Resources and infrastructure HRCS Coding Health Categories Generic - 100% Research Activity Code 1.5 Underpinning - 25% 2.6 Aetiology - 25% 4.5 Detection - 25% 5.9 Treatment - 25%

