

## Curriculum Vitae

### Personal Details:

**Name:** Graham Stewart Scotland

**Department:** Health Economics Research Unit  
Institute of Applied Health Sciences  
University of Aberdeen  
Foresterhill  
Aberdeen AB25 2ZD

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### Educational Background and Qualifications:

2005 - 2011: **PhD in Health Economics, University of Aberdeen:** Eliciting and applying preferences in economic evaluation: case studies in reproductive health (Awarded December 2011)

2000 - 2001: **MSc Health Services and Public Health Research,** University of Aberdeen. Modules: Health Economics, Applied Statistics, Health Services Research, Epidemiology and Public Health.

*Dissertation:* The costs and consequences of interventions to reduce mother to child HIV transmission in sub-Saharan Africa: A systematic review.

1994 - 1998: **BSc Biological Science with Honours in Pharmacology,** University of Edinburgh (2:1)

*Dissertation:* Characterisation of the 5-HT<sub>2A</sub> receptor.

### Membership of Professional Bodies and/or Professional Qualifications:

- International Health Economics Association (iHEA)
- UK Health Economists Study Group (HESG).
- Expert reviewer for the National Institute for Health Research Health Technology Assessment (NIHR HTA) Programme

### Employment History:

April 2012 -: **Senior Research Fellow (Grade 8):** *Health Economics Research Unit / Health Services Research Unit, University of Aberdeen*

- Assessment of Technologies theme leader

Jan 2010 -: **Research Fellow (Grade 7):** *Health Economics Research Unit, University of Aberdeen*

- Independently conducted applied and methodological health economics research, particularly health technology assessment and preference elicitation studies
- Developed health economic research objectives on new funding applications

- Taught economic evaluation to undergraduate and postgraduate students
- Supervised and oversaw the work of less experienced staff

March 2004 - Dec 2009 -: **Research Fellow (Grade 6):** *Health Economics Research Unit, University of Aberdeen*

- Carried out numerous economic evaluations based on decision analytic modelling and individual patient level data, particularly in the areas of chronic diseases and reproductive health
- Conducted outcome valuation surveys using the methods of standard gamble, contingent valuation and discrete choice experiments.
- Applied econometric techniques to the analysis of cost and stated preference data
- Managed multiple projects to strict deadlines

Sept 2001 - Mar 2004 -: **Research Assistant (Grade 1A):** *Dugald Baird Centre, University of Aberdeen, Aberdeen*

- Gained experience on international research projects aimed at developing and evaluating strategies to reduce maternal mortality in developing countries.
- Conducted costing work and contributed to the development of methods for evaluating the effectiveness, cost-effectiveness, and sustainability of complex safe motherhood interventions.
- Collaborated successfully with partners in Bangladesh, Ghana, Malawi, Mexico, and Jamaica.

**Other training:**

- Advanced methods in cost-effectiveness analysis. University of Oxford, July 2004
- Introduction to applied health economics. University of York, April 2009
- Statistical analysis with missing data using multiple imputation and inverse probability weighting. Scottish Health Informatics Programme, University of St Andrews, June 2011.
- Advanced modelling methods for health economic evaluation. University of Glasgow, September 2012.

**Teaching and Supervision:**

Postgraduate Certificate in Health Economics, Health Economics Research Unit, University of Aberdeen. Responsible for developing and delivering Module 3: *Economic Evaluation - Applications and Policy*

BS Medical Sciences, University of Aberdeen. Responsible for developing and teaching the health economics module

Deliver guest lectures on economic evaluation to undergraduate and postgraduate students

Supervision of undergraduate and post graduate master's students

Currently co-supervising one PhD Student: Ante Tockhorn (University of Aberdeen) - The assessment and appraisal of branded pharmaceuticals in the UK – going beyond the QALY in the context of Value-based Pricing

**Peer review:**

Expert referee for the National Institute for Health Research (NIHR), Health Technology Assessment Programme

Review NIHR Programme Grants for Applied Research

Have reviewed grant applications for the MRC and the Food and Health Bureau of the Government of Hong Kong.

Review health economics submissions to many clinical journals and some specialist health economics journals.

**Analytical software:**

Advanced: TreeAge (decision tree modelling, Markov modelling, patient level micro-simulation, discrete event simulation), STATA (e.g. econometric analysis of cost data, qualitative choice modelling, multilevel modelling), and Excel;

Proficient: SPSS;

Basic: SAS

**Bibliography:**

**Refereed papers**

**Scotland G**, van Teijlingen E, van der Pol M, Smith WCS. A review of studies assessing the costs and consequences of interventions to reduce mother-to-child HIV transmission in sub-Saharan Africa. *Acquired Immune Deficiency Syndromes* 2003; 17: 1045-1052

Bell J, Hussein J, Jentsch B M, **Scotland G**, Bullough C, Graham W. Improving Skilled Attendance at Delivery: A Preliminary Report of the SAFE Strategy Development Tool. *Birth: Issues in Perinatal Care* 2003; 30: 227-234

Milne L, **Scotland G**, Tagiyeva-Milne N, Hussein J. Safe motherhood programme evaluation: theory and practice. *Journal of Midwifery and Women's Health* 2004; 49(4): 338-344

**Scotland GS**, Bullough CHW. What do doctors think their caseload should be in order to maintain their skills for delivery care. *International Journal of Gynaecology and Obstetrics* 2004; 87(3): 301-7

**Scotland GS**, McNamee P, Bhattacharya S. Is elective single embryo transfer a cost-effective alternative to double embryo transfer? *BJOG: An International Journal of Obstetrics and Gynaecology* 2007; 114: 5-7

Waugh N, **Scotland G**, McNamee P, Gillett M, Brennan A, Goyder E, Williams R, John A. Screening for Type 2 diabetes: literature review and economic modelling. *Health Technology Assessment* 2007; 11 (17): 1-160

**Scotland GS**, McNamee P, Peddie V, Bhattacharya S. Safety versus success in elective single embryo transfer (eSET): women's preferences for outcomes of IVF. *BJOG: An International Journal of Obstetrics and Gynaecology* 2007; 114(8):977-83

Philip S, Fleming AD, Goatman KA, Fonseca S, McNamee P, **Scotland GS**, Prescott GJ, Sharp PF, Olson JA. The efficacy of automated “disease/no disease” grading for diabetic retinopathy in a systematic screening programme. *British Journal of Ophthalmology* 2007; 91(11):1512-7

**Scotland GS**, McNamee P, Philip S, Fleming AD, Goatman KA, Fonseca S, Prescott GJ, Sharp PF, Olson JA. Cost-effectiveness of implementing automated grading within the national screening programme for diabetic retinopathy in Scotland. *British Journal of Ophthalmology* 2007; 91(11):1518-23

Cheyne H, Hundley VA, Dowding D, Bland JM, McNamee P, Greer I, Styles M, Carol B, **Scotland GS**, Niven C. The effects of an algorithm for diagnosis of active labour: a cluster randomised trial. *British Medical Journal* 2008; 337: a2396

Maheshwari A, **Scotland G**, Bell J, McTavish A, Hamilton M, Bhattacharya S. The direct health services costs of providing assisted reproduction services in overweight or obese women: a retrospective cross-sectional analysis. *Human Reproduction* 2009; 24(3):633-9

Maheshwari A, **Scotland G**, McTavish A, Bell J, Hamilton M, Bhattacharya S. Direct health services costs of providing assisted reproduction services in older women-Retrospective cross-sectional analysis. *Fertility and Sterility* 2010; 93(2):527-36

Fleming AD, Goatman KA, Philip S, Williams GJ, Prescott GJ, **Scotland GS**, McNamee P, Leese GP, Wykes W, Sharp PF, and Olson JA, on behalf of the Scottish Diabetic Retinopathy Clinical Research Network. The role of haemorrhage and exudate detection in automated grading of diabetic retinopathy. *British Journal of Ophthalmology* 2010; 94(6):706-11

**Scotland GS**, McNamee P, Fleming AD, Goatman KA, Philip S, Prescott GJ, Sharp PF, Williams GJ, Wykes W, Leese GP, and Olson JA, on behalf of the Scottish Diabetic Retinopathy Clinical Research Network. Costs and consequences of automated algorithms versus manual grading for the detection of referable diabetic retinopathy. *British Journal of Ophthalmology* 2010; 94(6):712-9

Black C, Sharma P, **Scotland G**, McCullough K, McGurn D, Robertson L, Fluck N, Hannaford P, MacLeod A, McNamee P, Prescott G, Smith C. Early referral strategies for management of people with markers of renal disease: a systematic review of the evidence of clinical effectiveness, cost effectiveness and economic analysis. *Health Technology Assessment* 2010; 14(21):1-184

Sharma P, McCullough K, **Scotland G**, McNamee P, Prescott G, MacLeod A, Fluck N, Smith WC, Black C. Does stage 3 chronic kidney disease matter? A systematic literature review. *British Journal of General Practice* 2010; 60(575): 442-448

**Scotland GS**, McNamee P, Cheyne H, Hundley V, Barnett C. Women’s Preferences for aspects of labour and delivery care: results from a discrete choice experiment. *Birth* 2011; 38(1):36-46

**Scotland G**, Waugh N, Royle P, McNamee P, Henderson R, Hollick R. Denosumab for the prevention of osteoporotic fractures in post-menopausal women: a NICE single technology appraisal. *Pharmacoeconomics* 2011; 29 (11): 951-961

**Scotland G**, McLernon D, Kurinczuk JK, McNamee P, Harrild K, Lyall H, Rajkhowa M, Hamilton M, Bhattacharya S. Minimising twins in IVF: a modelling study assessing the costs, consequences, and cost-utility of elective single versus double embryo transfer over a 20 year time horizon. *BJOG: An International Journal of Obstetrics and Gynaecology* 2011; 118(9):1073-83

Waugh N, Royle P, **Scotland G**, Henderson R, Hollick R, McNamee P. Denosumab for the prevention of osteoporotic fractures in post-menopausal women: TAR Evidence Review Group Synopsis. *Health Technology Assessment* 2011 May;15 Suppl 1:51-9

McBeth J, Prescott G, **Scotland G**, Lovell K, Keeley P, Hannaford P, McNamee P, Symmons DPM, Woby S, Gkazinou C, Beasley M, Macfarlane GJ. Cognitive behavior therapy, exercise, or both for treating chronic widespread pain. *Archives of Internal Medicine* 2012 Jan 9;172(1):48-57

Gillett M, Royle P, Snaith A, **Scotland G**, Poobalan A, Imamura M, Black C, Boroujerdi M, Jick S, Wyness L, McNamee P, Brennan A, Waugh N. Non-pharmacological interventions to reduce the risk of diabetes in people with impaired glucose regulation: a systematic review and economic evaluation. *Health Technol Assess.* 2012 Aug;16(33):1-236

#### Papers forthcoming

Olson J, Sharp P, Goatman K, Prescott G, **Scotland G**, Fleming A, Philip A, Santiago C, Borooah S, Broadbent D, Chong V, Dodson P, Harding S, Leese G, Styles C, Swa K, Wharton H. Improving the Economic Value of Photographic Screening for Optical Coherence Tomography-Detectable Macular Oedema - A Prospective, Multi-Centre, United Kingdom Study. *Health Technology Assessment (Editorial stage)*

Mowatt G, **Scotland G**, Boachie C, Cruickshank M, Ford JA, Fraser C, Kurban L, Lam TB, Padhani AR, Royle J, Scheenen TW, Tassie E. Systematic review of the diagnostic accuracy and cost-effectiveness of magnetic resonance spectroscopy and enhanced magnetic resonance imaging techniques in aiding the localisation of prostate abnormalities for biopsy. Aberdeen HTA Group, Institute of Applied Health Sciences, University of Aberdeen, 2012 (Editorial stage)

Wardlaw J, Brazzelli M, Miranda H, Chappell F, McNamee P, Scotland G, Quayyum Z, Martin D, Shuler K, Sandercock P, Dennis M. An assessment of the cost-effectiveness of magnetic resonance including diffusion weighted imaging in patients with transient ischaemic attack and minor stroke. *Health Technology Assessment (Editorial stage)*

#### Conference presentations/papers:

**Scotland GS**, McNamee P, Philip S, Fleming A, Goatman KA, Prescott G, Fonseca S, Sharp PF, Olson JA. Costs and consequences of implementing automated grading within a national screening programme for diabetic retinopathy. Poster presentation, *Diabetes UK Annual Professional Conference*, Liverpool, 2006

**Scotland GS**, McNamee P, Peddie V, Bhattacharya S. Safety versus success in SET: women's preferences for outcomes of IVF. Oral presentation at the *22nd Annual Meeting of the European Society for Human Reproduction and Embryology*, Prague, June 2006 (Human Reproduction 2006; 21(Supplement1): i81, O-205)

**Scotland GS**, McNamee P. A methodological comparison of alternative standard gamble chaining procedures. Paper presented at the *Health Economists Study Group*, York, July 2006

Cheyne H, Hundley V, Dowding D, Aucott L, McNamee P, Styles M, Barnett CA, Greer I, Bland M, Niven K, McNamee P, **Scotland GS**. Measuring the Benefits of an algorithm for diagnosis of active Labour: Results from a Discrete Choice Experiment (DCE). The Early Labour Study in Scotland (TELSiS). *Symposium at the 28<sup>th</sup> Congress of the International Confederation of Midwives*, Glasgow, June 2008

**Scotland GS**, McNamee P, Ryan M. Should we be concerned about learning effects in discrete choice experiments? Oral presentation at the *7<sup>th</sup> European Conference on Health Economics*, Rome, July 2008.

Gillett M, Waugh N, Brennan A, **Scotland G**, Royle P. Cost effectiveness of a 2-step lifestyle or metformin strategy for prevention of type 2 diabetes. Poster presentation at the *The World Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension (CODHy)*. Barcelona, Spain, November 2008.

Maheshwari A, **Scotland G**, McTavish A, Bell J, Hamilton M, Bhattacharya S. Direct health services costs of providing assisted reproduction services in older women. Poster Presentation to the *Grampian NHS Endowments Conference*, November 2008, Aberdeen.

Maheshwari A, **Scotland G**, McTavish A, Bell J, Hamilton M, Bhattacharya S. Direct health services costs of providing assisted reproduction services in older women-Retrospective cross-sectional analysis. Oral presentation at the *British Fertility Association Summer College*, Liverpool, 2008

Black C, **Scotland GS**, Sharma P, McCullough K, Macleod AM. Early referral for chronic kidney disease: the evidence and economic case. Poster presentation at the *Annual Meeting of the American Nephrology Association*, October 2009.

**Scotland GS**, McNamee P, Fleming AD, Goatman KA, Philip S, Prescott GJ, Sharp PF, Williams GJ, Wykes W, Leese GP, and Olson JA, on behalf of the Scottish Diabetic Retinopathy Clinical Research Network. Costs and consequences of automated algorithms versus manual grading for the detection of referable diabetic retinopathy. Oral Presentation at the *World Ophthalmology Congress*, Berlin, June 2010.

**Scotland GS**, McLernon D, Kurinczuk JJ, Jamieson M, Lyall H, Rajkhowa M, Harrold A, Bhattacharya S. Avoiding twins in IVF: the cost-effectiveness and cost-utility of elective single and double embryo transfer over a 20 year time horizon. Oral Presentation and at the *Annual Meeting of the European Society for Human Reproduction and Embryology*, Rome, June 2010.

Sharma P, Black C, **Scotland G**, McCullough K, Robertson L, Fluck N, Macleod AM, McNamee P, Prescott G, WC Smith from ARRC HTA group. Approaches to care in Chronic Kidney Disease: supporting the development of a health economics model. Poster presentation at *Health Technology Assessment International*, Dublin, June 2010

Sharma P, Black C, **Scotland G**, McCullough K, Robertson L, Fluck N, Macleod AM, McNamee P, Prescott G, Smith WC from ARRC HTA group. The building blocks for complex decision making: an example of HTA in chronic kidney disease care. Poster presentation at *Health Technology Assessment International*, Dublin, June 2010

Cruickshank M, Mowatt G, **Scotland G**, Boachie C, Ford JA, Fraser C, Kurban L, Lam TB, Padhani AR, Royle J, Scheenen TW, Tassie E. Systematic review of the diagnostic accuracy and cost-effectiveness of magnetic resonance spectroscopy and enhanced magnetic resonance imaging techniques in aiding the localisation of prostate abnormalities for biopsy. *Improving quality in health care: translating research into practice*. Edinburgh, November 2012.

Denison FC, Raja A, **Scotland G**, Bhattacharya S, Mahmood T, Morris C, Norman JE, Lee A. Maternal obesity is associated with increased maternal and offspring morbidity in both primiparous and multiparous women. Poster presentation, *59th Annual Scientific Meeting of the Society for Gynecologic Investigation*, San Diego, March 2012.

Denison FC, Norwood PF, Bhattacharya S, Mahmood T, Morris C, Norman JE, Lee A, **Scotland G**. Maternal obesity is independently associated with increased antenatal admissions and health service costs. Poster presentation, *59th Annual Scientific Meeting of the Society for Gynecologic Investigation*, San Diego, March 2012.

Denison FC, Norwood PF, Bhattacharya S, Mahmood T, Morris C, Norman JE, Lee A, **Scotland G**. Maternal obesity is independently associated with increased antenatal admissions and health service costs. POSTER presentation, British Maternal and Fetal Medicine Society's 15<sup>th</sup> Annual Conference, April 2012

Denison FC, Raja A, **Scotland G**, Bhattacharya S, Mahmood T, Morris C, Norman JE, Lee A. Maternal obesity is associated with increased maternal and offspring morbidity in both primiparous and multiparous women POSTER presentation, British Maternal and Fetal Medicine Society's 15<sup>th</sup> Annual Conference, April 2012

Conference abstracts under review:

Tassie E, Mowatt G, Boachie B, Cruickshank M, Ford JA, Fraser C, Kurban L, Lam TB, Padhani AR, Royle J, Scheenen TW, **Scotland G**. Modelling the cost-effectiveness of using different MRI techniques to localise prostate abnormalities for biopsy in patients with a previous negative biopsy – the challenge of identifying the optimal strategy. Submitted to *Health Technology Assessment International* (HTAi), Seoul, July 2013.

Beasley M, Prescott G, McBeth J, **Scotland G**, Lovell K, Keeley P, Hannaford P, McNamee P, Symmons DPM, Woby S, Gkazinou C, Macfarlane GJ. Long-term effects of cognitive behaviour therapy and exercise for chronic widespread pain. Abstract submitted to the European League against Rheumatism (EULAR) Annual European Congress of Rheumatology, Madrid, 2013.

Other external presentations

Jentsch B, **Scotland GS**. The Skilled Attendance for Everyone (SAFE) strategy development Tool. Presentation to the National Institute of Public Health, Cuernavaca, Mexico, March 2002

Hussein J, Bullough C, Bell J, Jentsch BM, **Scotland GS**. The Strategy Development Tool. Panel presentation at the *Skilled Attendance for Everyone (SAFE) International Research Partnership Workshop*, Aberdeen, February 2003

**Scotland GS**. Costing the strategy development Tool. *Skilled Attendance for Everyone (SAFE) International Research Partnership Workshop*, Aberdeen, February 2003

Other reports, commissions and exhibitions

**Scotland GS**, Stearns S on behalf of the SAFE international Research Partnership (2003). Costing Manual for the SAFE strategy development tool: A guide for developing strategies to improve skilled attendance at delivery. The Dugald Baird Centre for Research on Women's Health, University of Aberdeen, Scotland. <http://www.abdn.ac.uk/dugaldbairdcentre/safe/resources.hti>

The SAFE international Research Partnership (2003). The SAFE Strategy Development Tool: A guide for developing strategies to improve skilled attendance at delivery. The Dugald Baird Centre for Research on Women's Health, University of Aberdeen, Scotland. <http://www.abdn.ac.uk/dugaldbairdcentre/safe/resources.hti>

**Scotland GS**, McNamee P, Philip S, Fleming AD, Goatman KA, Sharp PF, McNamee P, Fonseca S, Prescott GJ, Olson JA Manual versus automated: the diabetic retinopathy screening debate. Automated screening could be the cost-effective route. *Ophthalmology Times Europe* 2008; 4(2): 14-16

Philip S, Fleming AD, Goatman KA, Fonseca S, McNamee P, **Scotland GS**, Prescott GJ, Sharp PF, Olson JA. The role of automated grading of diabetic retinopathy in a primary care screening programme. Scottish Executive Health Department Chief Scientist Office, Focus on Research

Fleming AD, Goatman KA, Philip S, Williams GJ, Prescott GJ, **Scotland GS**, McNamee P, Leese GP, Wykes W, Swa K, Virdi M, Sharp PF, and Olson JA. The role of automated level-two

grading within the diabetic retinopathy screening collaborative network. Scottish Executive Health Department Chief Scientist Office, Focus on Research

Tinelli M, **Scotland G**, Watson M. An economic evaluation of the NHS Grampian Chlamydia Testing Study. Report submitted to NHS Grampian, December 2008. Available at: [http://www.hi-netgrampian.org/hinet/file/5066/economic\\_evaluation\\_FINALversion260609.doc](http://www.hi-netgrampian.org/hinet/file/5066/economic_evaluation_FINALversion260609.doc)

Bhattacharya S, **Scotland G**, Harrild K, Kurinczuk JK, Lyall H, Rajkhowa M, Harrold A. Clinical and cost-effectiveness of elective single embryo versus double embryo transfer policy in assisted reproduction. Final Report submitted to the *Chief Scientist Office*, February 2010 (CZG/2/361) (Graded Excellent)

**Scotland G**, Royle P, Henderson R, Hollick R, McNamee P, Waugh N. Evidence Review Group: denosumab for the prevention of osteoporotic fractures in post-menopausal women. Final report submitted to the *National Institute for Health and Clinical Excellence*, March 2010. Available at: <http://www.nice.org.uk/guidance/index.jsp?action=download&o=49283>

Denison FC, Lee A, Norman J, Bhattacharya S, **Scotland GS**, Morris C, Mahmood T. The clinical and short-term NHS costs of maternal obesity for maternity services in Scotland. Final Report submitted to the *Chief Scientist Office*, September 2011 (CZG/2/471)

Scotland G. Economic Evaluation of an Early Referral Strategy for People with Chronic Kidney Disease. *HERU Briefing Paper*, University of Aberdeen, February 2011

Grants awarded:

Maheshwari A, Bhattacharya S, **Scotland GS**, Hamilton M. Economic costs to the NHS following live birth subsequent to IVF at an advanced reproductive age. *NHS Endowment Grant*, £5,600, 13/03/2007 – 01/04/2007

Olson J, Sharp P, Goatman K, **Scotland GS**, McNamee P, Prescott G, Philip S, Swa K, Newsom R. Improving the value of screening for diabetic macular oedema using surrogate photographic markers. *National Institute for Health Research Health Technology Assessment Programme*, £432,174, 01/08/2008 – 31/07/2010.

**Scotland GS**. Assessment of values that individuals place on reducing maternal and neonatal mortality. *The Carnegie Trust for the Universities of Scotland*, £2,450, 01/06/08 – 31/08/08.

**Scotland GS**. Assessment of values that individuals place on reducing maternal and neonatal mortality. *University of Aberdeen Small Grants Fund*, £500, 01/06/08 – 31/08/08.

Bhattacharya S, **Scotland GS** (Joint PI), Harrild K, Kurinczuk J, Lyall H, Harrold A, Rajkhowa M. Clinical and cost-effectiveness of elective single embryo versus double embryo transfer policy in assisted reproduction. *Chief Scientist Office*, £45,638, 01/03/08 – 28/02/09.

Denison FC (University of Edinburgh), **Scotland GS** (HERU, University of Aberdeen), Lee A (University of Aberdeen), Norman J (University of Edinburgh), Bhattacharya S (University of Aberdeen), Morris C (Information Services Division, NHS Scotland), Mahmood T (NHS National Services Scotland); The clinical and short-term NHS costs of maternal obesity for maternity services in Scotland; Source of Funding: Chief Scientist Office; Total Funding: £49,970; HERU funding: £18,234; Proposed start date: 01/08/10; Duration of research: 1 year

Pandey S, Mollison J, **Scotland G**, Wordsworth S, Bhattacharya S. Cost-effectiveness of fertility diagnosis and treatment in women of different BMI groups. *NHS Grampian Endowment Fund*; Total funding: £8,570; Start date: March 2011; Duration of research: 12 months.

Porteous T, Bond C, Sheikh A, Thomas S, **Scotland G**, Francis J, Smith L, Wyke S, Lowrie R. Can a goal-focussed intervention delivered in Scottish community pharmacies improve outcomes for people with intermittent allergic rhinitis? A pilot randomised controlled trial. *Chief Scientist Office*; Funding: £165,738; Start date: May 2012; Duration of research: 12 months.

Grants applications under review:

Denison F, Brook-Smith S, Peace M, Norman JE, Clarkson C, Lawton J, **Scotland G**, McPherson G, Norrie J. pragmatic group sequential placebo controlled randomised trial to determine the effectiveness of Glyceryl trinitrate for retained placenta (Got-it trial) (HTA reference 12/29/01). Full application submitted to the National Institute for Health Research HTA Programme, for £1,621,895, January 2013

Bhattacharya S, Cooper K, Clark J, Hawe J, Phillips K, Hawthorne J, Norrie J, Cook J, **Scotland G**. A multicentre randomised controlled trial comparing laparoscopic supracervical hysterectomy with second generation endometrial ablation for the treatment of heavy menstrual bleeding. Full application submitted to the NIHR HTA Programme, for £1,470,447, January 2013.

Chakravarthy U, Ramsay C, Sivaprasad S, Hogg R, Heimann H, **Scotland G**, Banister K, Cook J, Azuara-Blanco A. Validation of tests of function and morphology in the early detection of neovascular AMD. Outline application submitted to the NIHR HTA Programme, for £ 2,708,388, December 2012.

Brittenden J, **Scotland G**, Lee A, Olson J, Pearson D, Philip S, Strachan F, Boyers D. Evaluation of the role of the ankle brachial pressure index in diabetic foot screening in primary care. Full application submitted to the *Chief Scientist Office* for £196,288, December 2012.