

Dwayne Boyers
Health Economics Research Fellow
Health Economics Research Unit / Health Services Research Unit
University of Aberdeen

Phone: 01224 437850

Email: d.boyers@abdn.ac.uk

Education:

2012 – present Registered as a part time PhD student in health economics, investigating issues of validity in discrete choice experiments and their impact on health care decision making, especially the outcomes of cost-benefit analyses.

2008 - 2009: Master of Economic Science in Economic Policy Evaluation and Planning

Results: First Class honours degree. (Subjects including Data Management, Econometrics, Economic Policy and Health Economics)

2005 – 2008: B. Comm. in Economics at National University of Ireland, Galway

Result: Graduated in 2008 with a First Class Honours degree

Significant Achievements: Awarded title of University Scholar in recognition of outstanding results in the second year of my degree programme.

1999 – 2005: Leaving Cert. at Jesus & Mary Secondary School, Enniscrone, Co. Sligo.

Results: Awarded 510 points in the following higher level subjects:
Accountancy, Mathematics, English, Physics, geography & German

Work Experience:

October 2011 – present **Health Economics Research Fellow (HERU) & Health Services Research Unit (HSRU), Aberdeen**

Duties: In addition to the duties outlined below, providing health economic support to the health services research unit across a wide portfolio of research projects as the development of health economics components for research funding applications to CSO / HTA and others.

October 2009 – October 2011 **Health Economics Research Assistant (HERU), Aberdeen**

Duties: Conducting economic evaluations alongside randomised controlled trials, providing health economic advice to ongoing trials and developing health economic models to accompany systematic reviews conducted as part of the Technology

Appraisal Reviews (TAR) contract with the National Institute for health and Clinical Excellence (NICE).

Summer 2009

Health Outcomes Research Intern with GSK, Dublin.

Duties:

Completion of research into pharmaceutical prices and reimbursement in Ireland. The Master's research involved excellent attention to detail, extensive report writing and use of various software including Excel and Stata.

Summer 2008:

Water Park Admissions, Wildwood, NJ 08260, USA

Duties:

Guest Service relations, dealing with the public and following rigorous Health and Safety procedures.

Summer 2006 and summer 2007: Office Assistant, Investment Solutions, Sligo.

Duties:

Mortgage Processing, Engaging with Clients and Insurance companies as well as over the counter sales of insurance products.

Skills & Qualities:

Trustworthy, reliable, honest and hard working

Strong written communication skills as evident from the preparation of trial report documentation, peer reviewed academic publications as well evidence review group reports for submission to NIHR and NICE.

Strong verbal communication skills are evident from the defence of these reports at NICE appraisal committee meetings as well as the presentation of work at international conferences.

Excellent computer and IT skills including a good working knowledge of software packages including Stata, SPSS, MS Word, MS Excel, Treeage, Ms PowerPoint and MS Outlook.

Logical thinker with excellent problem solving skills.

Interests & Hobbies:

I have a keen interest in travelling and exploring new cultures and have gained much knowledge by visiting other countries including Brazil, USA, Canada, Europe and Egypt among others

Referees:

Professor Luke Vale
University of Newcastle
UK

Professor Marjon van der Pol
University of Aberdeen
UK

Email: luke.vale@ncl.ac.uk

Email: m.vanderpol@abdn.ac.uk

Teaching commitments:

- Seminar leader for module 2 of HERU's distance learning course (2013/2014)
- Double marker for all modules on HERU's distance learning course (2010-2014)
- Contributor to HERU's Msc. in Health Economics, including lectures, tutorials and exam grading of Health Technology Assessment / Economic Evaluation material (2013-present)
- Contributor to Institute's health economics course for final year Medics, including lectures on economic evaluation (2013), Health systems (2011 / 2012 / 2014 / 2015), and marking of exam scripts. (2011-2015)
- Course director for health economics course for final year Medics, lectures, essays, examinations, grading and preparing and organising appropriate course materials (2015/2016)

Supervision:

- First supervision of Msc student from HERU's health economics course (2015)
- Supervision of undergraduate internships within HERU (2010 – present).
- Second supervision of Msc student from HERU's health economics course (2014).

Grants applied for:

- Obesity – decision analysis modelling study for obesity behaviour and surgical interventions - NIHR

Grant's held:

- Travel awards to attend conferences, awards from Principals excellence fund and the Royal Economics Society. – 3 grants of £500 each, totalling £1500
- NHS endowment grant, source Mohammed Abdel Fattah (£1000)
- PETERFEST study - £540, NHS Grampian.

Reports Submitted:

- Glazener C, Breeman S, Elders A, Henning C, Cooper K, Freeman R, Smith A, Hagen S, Montgomery I, Kilonzo M, **Boyers D**, McDonald A, McPherson G, MacLennan G, Norrie J. The clinical and cost-effectiveness of surgical options for the management of anterior and / or posterior vaginal wall prolapse: two randomised controlled trials within a Comprehensive Cohort Study (PROSPECT), Final report submitted to NIHR, health technology assessment, September 2015.
- Sharma P, **Boyers D**, Scott N, Hernandez R, Fraser C, Cruickshank M, Ahmed I, Ramsay C, Brazzelli M,. The clinical and cost-effectiveness of open mesh repairs in adults presenting with a clinically diagnosed unilateral, primary inguinal hernia who are operated in an elective settings: systematic review and economic evaluations, Final report submitted to NIHR, health technology assessment, February 2015.
- Gregson, B., Rowan, E., Francis, R., McNamee, P., **Boyers, D.**, Mitchell, P., McColl, E., Chambers, I., Untberg, A., Mendelow, D., (On behalf of the Stitch trial investigators. Surgical Trial In Traumatic intraCerebral Haemorrhage (STITCH): A randomised controlled trial of early surgery compared with initial conservative management. *Final grant report submitted to NIHR*. Newcastle University: 2014

- Robertson C, Archibald D, Avenell A, Douglas F, Hoddinott P, van Teijlingen E, **Boyers D**, Stewart F, Boachie C, Fioratou E, Wilkins D, Street T, Carroll P, Fowler C. Systematic reviews and integrated report on the quantitative, qualitative and economic evidence base for the management of obesity in men. *Final grant report submitted to the National Institute for Health Research*. University of Aberdeen: Health Services Research Unit; 2013
- Humphrey T, Lau A, Hoddinott P, Penman K, Bellizzi M, Chick C, **Boyers D**. Proactive telephone care for breastfeeding women delivered by a dedicated feeding support team in a rural community. Final report submitted to NHS Grampian, October 2013
- Sharma P, **Boyers D**, Boachie C, Stewart F, Miedzybrodzka Z, Simpson W, Kilonzo M, McNamee P, Mowatt G. Elucigene and LIPOchip for the detection of Familial Hypercholesterolemia, Final report submitted to NICE; April 2011
- Hoddinott P, Craig L, McLennon G, **Boyers D**, Vale L, McPherson G. The FEeding Support Team (FEST) trial of proactive telephone support for breastfeeding women living in disadvantaged areas. Final report submitted to NHS Grampian; March 2011
- Witham M, Fulton R, Greig C, Johnston D, Lang C, **Boyers D**, Van der Pol M, Struthers A, McMurdo M. Testing an exercise programme for frail, older heart failure patients – a randomized controlled trial. Final report submitted to CSO; October 2010
- Cuthbertson B, Stott S, Campbell M, Vale L, Cook J, Norrie J, Brittenden J, Kinsella J, Grant A, Alcorn D, Serpell, M, McColl A, Rae D, Shepherd K, Addison J, McPherson G, McDonald A, Cotton S, Elders A, MacLennan G, **Boyers D**, Hernandez R. Pragmatic multi-centre randomised trial of (1) routine postoperative ICU care and / or (2) pre-operative fluid loading in high-risk surgical patients undergoing major elective and urgent surgery. Final Report Submitted to CSO. April 2010
- **Boyers D**, Jia X, Crowther M, Jenkinson D, Fraser C, Mowatt G. Eltrombopag for the treatment of chronic idiopathic (immune) thrombocytopenic purpura (ITP): A Single Technology Appraisal. Aberdeen HTA Group, Institute of Applied Health Sciences, University of Aberdeen, 2009. Final report submitted to NICE; December 2009

Journal articles:

- Sharma P, **Boyers D**, Scott N, Hernandez R, Fraser C, Cruickshank M, Ahmed I, Ramsay C, Brazzelli M,. The clinical and cost-effectiveness of open mesh repairs in adults presenting with a clinically diagnosed unilateral, primary inguinal hernia who are operated in an elective settings: systematic review and economic evaluations. *Health Technol Assess* (2015), in press
- **Boyers D**, Avenell A, Stewart F, Robertson C, Archibald D, Douglas F, Hoddinott P, Van Teijlingen E. A systematic review of the cost-effectiveness of non-surgical obesity interventions in men. *Obesity research and clinical practice* (2015) **9**: 310-327

- Gregson, B., Rowan, E., Francis, R., McNamee, P., **Boyers, D.**, Mitchell, P., McColl, E., Chambers, I., Untberg, A., Mendelow, D., (On behalf of the Stitch trial investigators. Surgical Trial In Traumatic intraCerebral Haemorrhage (STITCH): A randomised controlled trial of early surgery compared with initial conservative management. *Health Technol Assess* (2015);**19** (70)
- Mendelow, D., Gregson, B., Rowan, E., Francis, R., McColl, E., McNamee, P., Chambers, I., Untberg, A., **Boyers, D.**, Mitchell, P., and on behalf of the STITCH (Trauma) Investigators. STITCH (Trauma); Early surgery versus initial conservative treatment in patients with traumatic intracerebral hemorrhage (STITCH[Trauma]): The first randomized trial. *Journal of Neurotrauma*. September 1, 2015, 32 (17): 1312-1323 doi: 10.1089/neu.2014.3644.
- Robertson C, Archibald D, Avenell A, Douglas F, Hoddinott P, van Teijlingen E, **Boyers D**, Stewart F, Boachie C, Fioratou E, Wilkins D, Street T, Carroll P, Fowler C. Systematic reviews and integrated report on the quantitative, qualitative and economic evidence base for the management of obesity in men, *Health Technol Assess*, 2014, 18(35)
- Stewart, F., Fraser, C., Robertson, C., Avenell, A., Archibald, D., Douglas, F., Hoddinott, P., van Teijlingen, E. and **Boyers, D.** (2014) 'Are men difficult to find?: Identifying male-specific studies in MEDLINE and Embase', *Systematic Reviews*, 3(1), 78
- **Boyers D**, Kilonzo M, Mostafa A, Abdel-Fattah M. Comparison of an adjustable anchored single incision mini sling, Ajust, with a standard mid-urethral sling, TVT-O: A health economic evaluation. *BJU International*, 2013, 112(8): 1169-1177
- **Boyers D**, McNamee P, Clarke A, Jones D, Martin D, Schofield P, Smith B. Cost-effectiveness of self-management methods for the treatment of chronic pain in older adults - A systematic review of the literature. *Clinical Journal of Pain*, 2013, 29(4), pp366-375
- Hoddinott P, Craig L, MacLennan G, **Boyers D**, Vale L (on behalf of the NHS Grampian and the University of Aberdeen FEST Project Team). The FEeding Support Team (FEST) randomised, controlled feasibility trial of proactive and reactive telephone support for breastfeeding women living in disadvantaged areas. *BMJ Open* 2012; 2:e000652.
- Hoddinott P, Craig L, MacLennan G, **Boyers D**, Vale L (on behalf of the NHS Grampian and the University of Aberdeen FEST Project Team). Process evaluation for the FEeding Support Team (FEST) randomised controlled feasibility trial of proactive and reactive telephone support for breastfeeding women living in disadvantaged areas. *BMJ Open* 2012;2:e001039
- Sharma, P., **Boyers, D.**, Boachie, C., Stewart, F., Miedzybrodzka, Z., Simpson, W., Kilonzo, M., McNamee, P. & Mowatt, G. (2012). 'Elucigene FH20 and LIPOchip for the diagnosis of

familial hypercholesterolaemia: a systematic review and economic evaluation'. *Health Technology Assessment*, 2012 vol 16, no. 17, pp. 1-266

- **Boyers D**, Jia X, Crowther M, Jenkinson D, Fraser C, Mowatt G. Eltrombopag for the treatment of chronic idiopathic (immune) thrombocytopenic purpura (ITP): A Single Technology Appraisal. *Pharmacoeconomics*, Feb 2012 30(2) 137-146.
- Witham, MD., Fulton, RL., Greig, CA., Johnston, DW., Lang, CC., van der Pol, M., **Boyers, D.**, Struthers, AD. & McMurdo, MET. (2012). 'Efficacy and Cost of an Exercise Programme for Functionally Impaired Older Heart Failure Patients: A Randomized Controlled Trial'. *Circulation. Heart Failure*, vol 5, pp. 209-216.
- Cuthbertson, BH., Campbell, MK., Stott, SA., Elders, A., Hernández, R., **Boyers, D.**, Norrie, J., Kinsella, J., Brittenden, J., Cook, J., Rae, D., Cotton, SC., Alcorn, D., Addison, J., Grant, A. & the FOCCUS study group (2011). 'A pragmatic multi-centre randomised controlled trial of fluid loading in high-risk surgical patients undergoing major elective surgery: the FOCCUS study'. *Critical Care*, vol 15, no. 6, pp. R296.
- **Boyers, D.**, Jia, X., Crowther, M., Jenkinson, DJ., Fraser, CM. & Mowatt, G. (2010). 'Eltrombopag for the treatment of chronic idiopathic (immune) thrombocytopenic purpura (ITP): A Single Technology Appraisal'. *Health Technology Assessment*, vol 15, no. Suppl 1, pp. 23-32.

Study Protocol:

- Clarkson J, Ramsay C, Averly P, Bonetti D, **Boyers D** et al. IQuaD dental trial; improving the quality of dentistry: a multicenter randomized controlled trial comparing oral hygiene advice and periodontal instrumentation for the prevention and management of periodontal disease in dentate adults attending dental primary care. *BMC Oral Health* 2013 13: 58.

Revise and Re-submit papers:

- Currently none at this stage

Oral Presentations:

- **Boyers, D.**, McNamee, P., Gregson, B. A. and Mendelow, A. D. (2015) 'Issues in the estimation of QALYs for high mortality studies: an application to the cost-effectiveness of early surgery for intra-cerebral hemorrhage.' *HTAi 2015. Global Efforts in Knowledge Transfer: HTA to Health Policy and Practice*, Oslo, Norway, 15-17 June 2015
- Robertson C, Avenell A*, Boachie C, Stewart F, Archibald D, Douglas F, Hoddinott P, van Teijlingen E, **Boyers D.** Should weight loss programmes be designed differently for men and women? The ROMEO (Review of Men and Obesity) Project. *Association for the Study of Obesity, UK Congress on Obesity, Birmingham, 16-17 September 2014*

- Hoddinott P*, Archibald D, Robertson C, Stewart F, **Boyers D**, Douglas F, van Teijlingen E, Avenell A. Obesity in men: evidence synthesis findings and their implications for primary care. The ROMEO (Review of Men and Obesity) Project. *Society for Academic Primary Care* – 9-12th July 2014 Edinburgh
- **Boyers D***, Hernandez R, Vale L, Elders A, Cuthbertson B. The value of future research to determine the cost-effectiveness of fluid loading prior to high risk major elective surgery: the use of expected value of sample information. *Society of medical decision making – Europe biennial meeting; June 2014; Antwerp*.
- Archibald D*, Douglas F, Hoddinott P, van Teijlingen E, Robertson CF, Stewart F, **Boyers D**, Avenell A. A mixed-method evidence synthesis on the management of male obesity: the ROMEO (Review Of MEN and Obesity) Project. *Scottish Faculty of Public Health, Dunblane, 7-8 November 2013*.
- **Boyers D***, Stewart F, Avenell A. Evaluating the cost-effectiveness of new interventions in the management and treatment of obesity - lessons for good practice evaluations from the ROMEO Project. *20th European Congress on Obesity, Liverpool, 12-15 May 2013*.
- Robertson CF*, Archibald D, Avenell A, Douglas F, Hoddinott P, van Teijlingen E, **Boyers D**, Stewart F, Boachie C, Fioratou E, ROMEO Project Group. Using a combined realist and socio-ecological approach to integrating quantitative and qualitative systematic review evidence in a health technology assessment setting. *21st Cochrane Colloquium, Quebec, 19-23 September 2013*.
- Sharma P*, Mowatt G, Stewart F, Boachie C, Miedzybrodzka Z, Simpson W, **Boyers D**, Kilonzo M, McNamee P. Challenges in conducting a systematic review of diagnostic test accuracy of genetic test: an example of the genetic diagnosis of familial hypercholesterolaemia. *21st Cochrane Colloquium, Quebec, 19-23 September 2013*.
- **Boyers D**, Kilonzo M, Mostafa A, Abdel-Fattah M*. Single Incision Mini Slings versus standard mid urethral slings, a cost-effectiveness analysis alongside a randomised controlled trial. Oral presentation; International Continence Society, Beijing, September 2012.
- **Boyers D***, Sharma P, Kilonzo M, Boachie C, Stewart F, Miedzybrodzka Z, Simpson W, Kilonzo M, McNamee P. Elucigene and LIPOchip for the diagnosis of familial hypercholesterolemia. Oral presentation; Health Technology Assessment International, Bilbao, 2012.
- **Boyers D**, McNamee P*, Clarke A, Jones D, Martin D, Schofield P, Smith B. Cost - effectiveness of self -management of chronic pain on older adults: a systematic review" Poster presentation; British pain society conference, Liverpool, Apr 2012.
- **Boyers D**, McNamee P*, Clarke A, Jones D, Martin D, Schofield P, Smith B. Cost-effectiveness of self-management methods for the treatment of chronic pain in older adults - A systematic review of the literature. Presented at British Society of Gerontology, Plymouth, July 2011.

- **Boyers D***, Hernandez R, Vale L, Elders A, Cuthbertson B. Pragmatic multi-centre randomised trial of pre-operative fluid loading in high-risk surgical patients undergoing major elective surgery – a cost effectiveness analysis. Presented at HTAi, Rio de Janeiro, June 2011
- Hoddinott P*, Craig L, McLennon G, **Boyers D**, Vale L, McPherson G. The FEeding Support Team (FEST) trial of proactive telephone support for breastfeeding women living in disadvantaged areas. Presented at HSR/SDO conference Liverpool, June 2011.
- Hoddinott P*, Craig L, McLennon G, **Boyers D**, Vale L, McPherson G. The FEeding Support Team (FEST) trial of proactive telephone support for breastfeeding women living in disadvantaged areas. Presented at Maternal and Infant Nutrition and Nurture Conference (MAINN) - Grange over Sands, Cumbria, June 2011
- **Boyers D***, McNamee P, Clarke A, Jones D, Martin D, Schofield P, Smith B. Cost-effectiveness of self-management methods for the treatment of chronic pain in older adults. Presented at Lifelong Health and Wellbeing Research Retreat, Longhorsley, Northumberland November 2010

Invited / Seminar presentations:

- **Boyers, D.**, McNamee, P., Gregson, B. A. and Mendelow, A. D. (2015) 'Issues in the estimation of QALYs for high mortality studies: an application to the cost-effectiveness of early surgery for intra-cerebral hemorrhage, Invited seminar presentation, University of Leeds, May 2015.
- Sharma P, **Boyers D***, Boachie C, Stewart F, Miedzybrodzka Z, Simpson W, Kilonzo M, McNamee P, Mowatt G: *Elucigene and LIPOchip for FH: NICE Diagnostic Assessment Review (DAR)*: invited presentation; Scottish lipids forum, dunkeld, November 2011.

Poster presentations:

- **Boyers D**, Avenell A*, Stewart F, Robertson C, Archibald D, Douglas F, Hoddinott P, van Teijlingen E, ROMEO Project Group. Evaluating the cost-effectiveness of interventions for the management and treatment of obesity in men – results from the ROMEO study. *Men's health and wellbeing: critical insights conference, Leeds, 7-8 July 2014.*
- **Boyers D***, Stewart F, Avenell A. Evaluating the cost-effectiveness of new interventions in the management and treatment of obesity – lessons for good practice evaluations from the ROMEO Project. 20th European Congress on Obesity, May 12-15 2013, Liverpool, UK. Obesity Facts 2013; 6(suppl 1): 194.
- Robertson C, Avenell A*, Stewart F, Archibald D, Douglas F, Hoddinott P, van Teijlingen E, **Boyers D** and the Romeo Project Group. A systematic review of weight loss interventions

for obese men in the UK: The ROMEO Project. *Men's health and wellbeing: critical insights conference, Leeds, 7-8 July 2014.*

- Robertson C, Avenell A*, Stewart F, Archibald D, Douglas F, Hoddinott P, van Teijlingen E, **Boyers D** and the Romeo Project Group. Should weight loss programmes be designed differently for men? A systematic review of long-term weight loss randomised controlled trials: The Romeo Project. *Men's health and wellbeing: critical insights conference, Leeds, 7-8 July 2014.*
- **Boyers D**, Avenell A, Stewart F, Robertson C*, Archibald D, Douglas F, Hoddinott P, van Teijlingen E. A systematic review of the cost-effectiveness of non-surgical obesity interventions in men. *Association for the Study of Obesity, UK Congress on Obesity, Birmingham, 16-17 September 2014.*
- Robertson C*, Avenell A, Stewart F, Archibald D, Douglas F, Hoddinott P, van Teijlingen E, **Boyers D** and the Romeo Project Group. A systematic review of long-term weight management randomised controlled trials for obese men: The ROMEO project. *Association for the Study of Obesity, UK Congress on Obesity, Birmingham, 16-17 September 2014.*
- Robertson C, Avenell A*, Stewart F, Archibald D, Douglas F, Hoddinott P, van Teijlingen E, **Boyers D** and the Romeo Project Group. A systematic review of weight loss interventions for obese men in the UK: The ROMEO Project. *Association for the Study of Obesity, UK Congress on Obesity, Birmingham, 16-17 September 2014.*

* denotes presenting author

Reviewer for the following journals:

- Assistant Editor for economics components on the Cochrane incontinence review group.
- BJOG
- Journal of pain research
- Advances in Therapy
- Grant reviews for HTA applications
- American Journal of Preventative Medicine

Journal Advisory Boards:

- Infectious diseases and therapy.
- Advances in Therapy.

Specialist Training Courses:

- Network meta-analysis for economic evaluation, HTAi, Oslo, June 2015
- Using R software for psychometric and Rasch analysis, University of Aberdeen, April 2015
- Methods of choice modeling course, William Greene, Braga, Portugal, June 2013
- InterTASC training day on value based pricing, Rotterdam, The Netherlands, May 2013.

- DCE workshop, Mandy Ryan & Verity Watson, Aberdeen, 2011
- Advanced economic modeling course (Mark Sculpher and others), March 2010.
- Courses attended at SMDM 2014, Antwerp: Discrete event simulations and Value of information analysis courses.