

## **CURRICULUM VITAE**

**Name:** Roger Benedict Newson *BSc MSc DPhil*.

**Current work address:** Centre for Cancer Screening, Prevention and Early Diagnosis, Wolfson Institute of Preventive Medicine, Queen Mary University of London, Charterhouse Campus, Charterhouse Square, London EC1M 6BQ.

**Current email address:** `roger.newson@kcl.ac.uk`

**Website:** <http://www.rogernewsonresources.org.uk>

**Date of birth:** 08 June 1955.

## **PERSONAL PROFILE**

I am an applied statistician and statistical programmer, with a wide range of research experience. This has been mainly medical, which is unsurprising, as I came to statistics from a genetics background. I work extensively on the analysis, management and validation of data. My analyses use a very broad range of methods, standard and non-standard, developing new methods when appropriate. As I have a broad, in-depth understanding of how statistical methods work (or otherwise), I find it easy to learn or develop new methods, and to gain a feel for their advantages and limitations. Although my skills are more technical than managerial, one of my strong points is communicating statistics to non-statistical people. I contribute to the writing of scientific reports and papers, sometimes as the corresponding author of a multi-authored multi-centre publication. I am also involved in teaching statistics to medical students, and refereeing for medical and statistical periodicals.

## **SKILLS**

**Statistical methods:** Although not a career methodologist, I have published on (and use routinely in my day-to-day work) confidence-interval methods for rank and spline parameters that can be understood by non-statisticians, and which are not really “non-parametric”. I am also expert in using (and developing when necessary) scenario-comparison methods, propensity-score methods, and implementations of multiple-test procedures.

**Statistical/numerical software:** I have written and distributed over 120 Stata packages, mostly on the Statistical Software Components (SSC) website. I am also an experienced SAS programmer, have been a Genstat programmer, and have some experience of R, including integrating R with Stata.

**Programming languages:** Mata, C, SQL. Some knowledge of C++. Have previously been a FORTRAN programmer and a Pascal programmer.

**Operating environments (last 10 years):** Windows, Linux.

**Other software:** Plain TeX and LaTeX (using the MiKTeX package). I have also used symbol-

manipulation software for algebraic solution of quartic eigenequations.

**Other training:** Completed a course in Good Clinical Practice (GCP) at the King's College London Clinical Trials Unit in 2023.

## **CAREER**

**September 2021-Present:** Research Fellow in the Centre for Cancer Screening, Prevention and Early Diagnosis, Wolfson Institute of Preventive Medicine, Queen Mary University of London.

**April 2021-August 2023:** Statistician in the Cancer Prevention Group, School of Cancer & Pharmaceutical Sciences, King's College London.

**October 2018-March 2021:** Research Associate in the Department of Primary Care and Public Health, School of Public Health, Imperial College London. Providing the computational and statistical input for a project in the Doctor Foster Unit funded by the British Heart Foundation (BHF) on describing and modelling the treatment and survival prospects for patients diagnosed with heart failure in 2001-2002 and in 2011-2012.

**July 2014-September 2018:** Research Associate in the Department of Primary Care and Public Health, School of Public Health, Imperial College London. Involved principally in research projects on adverse drug reactions (ADRs). I also liaised with researchers as a member of the Research Development Service (RDS) team, advising them regarding their grant applications for trials and other studies, especially regarding power calculations. In this position, I became familiar with analysing data from NHS databases, such as the Hospital Episode System (HES) and the Clinical Practice Research Datalink (CPRD).

**January 2006-June 2014:** Lecturer in Medical Statistics in the Respiratory Epidemiology, Occupational Medicine and Public Health Group, National Heart and Lung Institute, Imperial College London. Involved mainly in research projects on the epidemiology of asthma and allergic disease. Included in the College's REF submission for 2014.

**September 1999-December 2005:** Lecturer in Medical Statistics at the Department of Public Health Sciences, King's College London (from which my group moved to Imperial College as a group in January 2006).

**October 1996-August 1999:** Lecturer in Medical Statistics at the Department of Epidemiology and Public Health, Imperial College School of Medicine, London.

**September 1995-September 1996:** Statistician at the Department of Public Health Sciences, St George's Hospital Medical School, London.

**August 1994-August 1995:** Between jobs, I updated my skills and did some consultancy work at the Organisation of Population Censuses and Surveys (OPCS).

**August 1991-August 1994:** Statistician and Modeller in the Department of Statistics, Rothamsted Experimental Station. (Status: SSO.)

**July 1986-July 1991:** Computer Programmer and Statistician in the Department of Environmental and Preventive Medicine, Medical College of St. Bartholomew's Hospital.

**March 1982-May 1986:** Computational and Statistical Assistant in the Department of Epidemiology, London School of Hygiene and Tropical Medicine.

**January 1980-December 1981:** Computer programmer in the Department of Bacteriology, St Mary's Hospital Medical School, University of London.

### OTHER FUNCTIONS HELD

**Since 2009:** Scientific co-organiser of the United Kingdom Stata User Meeting (with Professor Stephen Jenkins and more recently with Michael Crowther) in 2009, 2011, 2013, 2015, 2017, 2019, and 2021.

**Since May 2003:** Associate Editor of *The Stata Journal*.

**July 2007 to September 2009:** Regular statistical referee for *Thorax*.

**May 1997 to February 2003:** Regular statistical referee for *Journal of Bone and Joint Surgery*.

### PRIZES, AWARDS AND OTHER ACADEMIC DISTINCTIONS

**December 2014.** The *Stata Journal* Editors' Prize, 2014. Presented principally for the article: Newson RB. Attributable and unattributable risks and fractions and other scenario comparisons. *The Stata Journal* 2013; **13**: 672-698.

### EDUCATION

**October 1980-July 1988 (concurrently with full-time employment):** Part-time studies, leading to the award (in 1988) of the degree of DPhil at the University of Sussex, based in the Schools of Mathematics and Biology.

**October 1978-August 1979:** MSc, Biometry, Department of Applied Statistics, University of Reading. Graduated 1979.

**October 1977-July 1978:** Preliminary year in the Department of Mathematics, Nottingham University, qualifying me for entry to the MSc course in Biometry at Reading University.

**October 1974-July 1977:** BSc, Botany/Zoology (Joint Honours), University of Nottingham. Graduated 1977, Class 2(ii).

## **REFEREES**

Professor Alex Bottle  
Department of Public Health and Primary Care  
Imperial College London  
The Reynolds Building  
St Dunstan's Road  
London W6 8RP  
United Kingdom  
Email: robert.bottle@imperial.ac.uk

Professor Paul Aylin  
Department of Public Health and Primary Care  
Imperial College London  
The Reynolds Building  
St Dunstan's Road  
London W6 8RP  
United Kingdom  
Email: p.aylin@imperial.ac.uk

Professor Kausik Ray  
Department of Public Health and Primary Care  
Imperial College London  
The Reynolds Building  
St Dunstan's Road  
London W6 8RP  
United Kingdom  
Email: k.ray@imperial.ac.uk

Dr Michael Soljak  
Head of Epidemiology and Health Information  
Lee Kong Chian School of Medicine  
Experimental Medical Building  
59 Nanyang Drive  
Singapore 636921  
Singapore  
Email: m.soljak@imperial.ac.uk

### ARTICLES IN REFEREED JOURNALS (PUBLISHED)

Pitts Crick R, Vogel R, Newson RB, Hunt B, Shipley M, Blackmore H, Bulpitt CJ. Visual field loss in glaucoma: preliminary data on a 12-year follow up. *Research and Clinical Forums* 1985; **7(1)**: 51-62.

Vogel R, Pitts Crick R, Newson RB, Hunt B, Shipley M, Blackmore H, Bulpitt CJ. The association between intra-ocular pressure and loss of visual field in chronic simple glaucoma: a preliminary report from the analysis of the King's College Hospital Glaucoma Project. *Research and Clinical Forums* 1985; **7(1)**: 63-69.

Crick RP, Vogel R, Newson RB, Hunt B, Shipley M, Blackmore H, Bulpitt CJ. Relationship between Intraocular Pressure and Visual Field Progress in Chronic Simple Glaucoma and Ocular Hypertension. *Glaucoma* 1985; **7**: 208-219.

Bulpitt CJ, Beevers G, Butler A, Coles E, Hunt D, Munro-Faure AD, Newson RB, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance P, Twallin G, Webster J, Dollery CT. The survival of treated hypertensives and their causes of death: A Report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Hypertension* 1986; **4**: 93-99.

Crick R, Vogel R, Newson R, Shipley M, Blackmore H, Bulpitt C. The nature of visual field impairment in chronic simple glaucoma and ocular hypertension. *New Trends in Ophthalmology* 1986; **1**: 229-234.

Bulpitt CJ, Beevers DG, Butler A, Coles E, Fletcher AE, Hunt D, Munro-Faure AD, Newson RB, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance PB, Twallin G, Webster J, Dollery CT. Treated blood pressure, rather than pretreatment, predicts survival in hypertensive patients. A report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Hypertension* 1988; **6**: 627-632.

Fletcher AE, Beevers DG, Bulpitt CJ, Butler A, Coles EC, Hunt D, Munro-Faure AD, Newson R, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance PB, Twallin G, Webster J, Dollery C. The relationship between a low treated blood pressure and IHD mortality: a report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Human Hypertension* 1988; **2**: 11-15.

Fletcher A, Beevers DG, Bulpitt C, Butler A, Coles EC, Hunt D, Munro-Faure AD, Newson RB, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance PB, Twallin G, Webster J, Dollery C. Beta-adrenoceptor blockade is associated with increased survival in male but not in female patients: a report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Human Hypertension* 1988; **2**: 219-227.

Bulpitt CJ, Beevers DG, Butler A, Coles E, Hunt D, Munro-Faure AD, Newson RB, O'Riordan PW, Petrie JC, Rajagopalan B, Rylance PB, Twallin G, Webster J, Dollery C. The effects of anti-hypertensive drugs on sexual function in men and women: a report from the DHSS Hypertension Care Computing Project (DHCCP). *Journal of Human Hypertension* 1989; **3**: 53-56.

Crick RP, Vogel R, Newson RB, Shipley MJ, Blackmore H, Palmer A, Bulpitt CJ. The Visual Field in Chronic Simple Glaucoma and Ocular Hypertension; Its Character, Progress, Relationship to the Level of Intraocular Pressure and Response to Treatment. *Eye* 1989; **3**: 536-546.

Crick RP, Newson RB, Shipley MJ, Blackmore H, Bulpitt CJ. The Progress of the Visual Field in Chronic Simple Glaucoma and Ocular Hypertension Treated Topically with Pilocarpine or with Timolol. *Eye* 1990; **4**: 563-571.

Vogel R, Crick RP, Newson RB, Shipley M, Blackmore H, Bulpitt CJ. Association between intraocular pressure and loss of visual field in chronic simple glaucoma. *British Journal of Ophthalmology* 1990; **74**: 3-6.

Palmer A, Pitts Crick R, Vogel R, Blackmore H, Coakes R, Newson R, Reynolds P, Shipley M, Bulpitt C. Are Ocular Hypertension and Glaucoma the Same Condition? A Report from the King's College Hospital Glaucoma Project. *Glaucoma* 1991; **13**:174-180.

Newson RB, Parker JS, Barlow PB. Are Lateral Roots of Tomato Spaced by Multiples of a Fundamental Distance? *Annals of Botany* 1993; **71**: 549-557.

Newson R. A canonical model for production and distribution of root mass in space and time. *Journal of Mathematical Biology* 1995; **33**: 477-488.

Newson R, Strachan D, Archibald E, Emberlin J, Hardaker P, Collier C. The effect of thunderstorms and airborne grass pollen on acute asthma incidence in England, 1990-1994. *Thorax* 1997; **52**: 680-685.

Newson R, Strachan D, Archibald E, Emberlin J, Hardaker P, Collier C. Acute asthma epidemics, weather and pollen in England, 1987-1994. *European Respiratory Journal* 1998; **11**: 694-701.

Farmer RDT, Newson RB, MacRae K, Lawrenson RA, Tyrer F. Mortality from venous thromboembolism amongst young women in Europe: no evidence for any effect of third generation oral contraceptives. *Journal of Epidemiology and Community Health* 1997; **51**: 630-35.

Gibbs RGJ, Todd JC, Irvine C, Lawrenson R, Newson R, Greenhalgh RM, Davies AH. Relationship between the regional and national incidence of transient ischaemic attack and stroke and performance of carotid endarterectomy. *European Journal of Endovascular Surgery* 1998; **16**: 47-52.

Mallon E, Young D, Bunce M, Gotch F, Easterbrook PJ, Newson R, Bunker CB. HLA-Cw\*0602 and HIV associated psoriasis. *British Journal of Dermatology*, 1998; **139**: 527-533.

Lawrenson RA, Newson RB, Feher MD. Do women with diabetes receive hormone replacement therapy? *Practical Diabetes International* 1998; **15(3)**:71-2.

Tachakra S, Ho S, Lynch M, Newson R. Should doctors practise resuscitation skills on newly

deceased patients? A survey of public opinion. *Journal of the Royal Society of Medicine* 1998; **91**: 576-78.

Harper R, Harding G, Savage I, Evans N, Newson R. Consultation areas in community pharmacies: an evaluation. *Pharmaceutical Journal* 1998; **261**: 947-50.

Beck EJ, Mandalia S, Williams I, Power A, Newson R, Molesworth A, Barlow D, Easterbrook P, Fisher M, Innes J, Kinghorn G, Mandel B, Pozniak A, Tang A, Tomlinson D. Decreased morbidity and use of hospital services in English HIV infected individuals with increased uptake of anti-retroviral therapy 1996-1997. *AIDS* 1999; **13**: 2157-2164.

Farrell A, Alaghband-Zadeh J, Carter G, Newson RB, Cream JJ. Do some men with acne vulgaris have raised levels of LH? *Clinical Endocrinology* 1999; **50(3)**: 393-397.

Lawrenson RA, Leydon GM, Williams TJ, Newson RB, Feher MD. Patterns of contraception in UK women with Type 1 diabetes mellitus: a GP database study. *Diabetic Medicine* 1999; **16(5)**: 395-399.

Lawrenson RA, Leydon GM, Newson RB, Feher MD. Coronary heart disease in women with diabetes. Positive association with past hysterectomy and possible benefits of hormone replacement therapy. *Diabetes Care* 1999; **22(5)**: 856-7

Hooker RC, Cowap N, Newson R, Freeman GK. Better by half: hypertension in the elderly and the "rule of halves": a primary care audit of the clinical computer record as a springboard to improving care. *Family Practice* 1999; **16**: 123 – 128.

Zambanini A, Newson RB, Maisey M, Feher MD. Injection related anxiety in insulin-treated diabetes. *Diabetes Research & Clinical Practice* 1999; **46(3)**: 239-246.

Lawrenson RA, Tyrer F, Newson RB, Farmer RD. The treatment of depression in UK general practice: selective serotonin reuptake inhibitors and tricyclic antidepressants compared. *Journal of Affective Disorders* 2000; **59(2)**: 149-57.

Mallon E, Hawkins DA, Dineen M, Francis N, Newson RB, Bunker CB. Circumcision and genital dermatoses. *Archives of Dermatology* 2000; **136**: 350-354.

Newson R, Shaheen SO, Chinn S, Burney PGJ. Paracetamol sales and atopic disease in children and adults: an ecological analysis. *European Respiratory Journal* 2000; **16**: 817-823.

Newson R, Strachan D, Corden J, Millington W. Fungal and other spore counts as predictors of asthma admissions in the Trent region. *Occupational and Environmental Medicine* 2000; **57**: 786-792.

Tachakra S, Lynch M, Newson R, Stinson A, Sivakumar A, Hayes J, Bak J. A comparison of telemedicine with face-to-face consultations for trauma management. *Journal of Telemedicine & Telecare* 2000; **6 Suppl 1**: S178-181.

Tachakra S, Dutton D, Newson R, Hayes J, Sivakumar A, Jaye P, Bak J. How do

teleconsultations for remote trauma management change over a period of time?. *Journal of Telemedicine & Telecare* 2000; **6 Suppl 1**:S12-15.

Mallon E, Bunce M, Savoie H, Newson R, Rowe A, Gotch F, Bunker CB. HLA-Cw\*0602 and guttate psoriasis. *British Journal of Dermatology* 2000; **143**: 1177-1182.

Gibbs RGJ, Newson R, Lawrenson R, Greenhalgh RM, Davies RH. Incidence and Initial Management of Stroke and Transient Ischaemic attack across the UK Health Regions 1992-1996; Experience of a National Primary Care Database. *Stroke* 2001; **32**: 1085-1090.

Easterbrook PJ, Newson R, Ives N, Pereira S, Moyle M, Gazzard BG. Comparison of Virologic, Immunologic, and Clinical Response to Five Different Initial Protease Inhibitor-Containing and Nevirapine-Containing Regimens. *Journal of Acquired Immune Deficiency Syndromes* 2001; **27(4)**: 350-364.

Doherty AT, Howell RT, Ellis LA, Bisbinas I, Learmonth ID, Newson R, Case CP. Increased chromosome translocations and aneuploidy in peripheral blood lymphocytes of patients having revision arthroplasty of the hip. *Journal of Bone and Joint Surgery* 2001; **83-B**: 1075-1081.

Neild PJ, Evans DF, Castillo FD, Newson R, Yasaki ET, Wingate DL, Gazzard BG. Effect of octreotide on small intestinal motility in HIV-infected patients with chronic refractory diarrhea. *Digestive Diseases & Sciences* 2001; **46(12)**: 2636-2642.

Zambarakji HJ, Newson RB, Mitchell SM. CMVR diagnoses and progression of CD4 cell counts and HIV viral load measurements in HIV patients on HAART. *British Journal of Ophthalmology* 2001; **85**: 837 - 841.

Forbes L, Harvey S, Jarvis D, Luczynska C, Newson R, Burney P, Price J. Risk factors for attendance at accident and emergency departments in children with asthma living in the inner city. *Thorax* 2001; **56 Suppl 1**: S63.

Tachakra S, Newson R, Wootton R, Stinson A. Avoiding artificiality in teleconsultations. *Journal of Telemedicine and Telecare* 2001; **7 Suppl 1**: S39-S42.

Newson R. Parameters behind “nonparametric” statistics: Kendall’s tau, Somers’ *D* and median differences. *The Stata Journal* 2002; **2(1)**: 45-64.

Shaheen SO, Newson RB, Sherriff A, Henderson AJ, Heron JE, Burney PGJ, Golding JE and the ALSPAC Study Team. Paracetamol use in pregnancy and wheezing in early childhood. *Thorax* 2002; **57**: 958-963.

Newson R and the ALSPAC Study Team. Multiple-test procedures and smile plots. *The Stata Journal* 2003; **3(2)**: 109-132.

Newson R Confidence intervals and *p*-values for delivery to the end user. *The Stata Journal* 2003; **3(3)**: 245-269.



Newson R. Stata tip 1: The eform() option of regress. *The Stata Journal* 2003; **3(4)**: 445.

Newson R. Stata tip 5: Ensuring programs preserve dataset sort order. *The Stata Journal* 2004; **4(1)**: 94.

Newson R. Stata tip 13: generate and replace use the current sort order. *The Stata Journal* 2004; **4(4)**: 484-485.

Shaheen SO, Newson RB, Henderson AJ, Emmett PM, Sherriff A, Cooke M and the ALSPAC Study Team. Umbilical cord trace elements and minerals and risk of early childhood wheezing and eczema. *European Respiratory Journal* 2004; **24(2)**: 292-297.

Newson RB, Shaheen SO, Henderson AJ, Emmett PM, Sherriff A, Calder PC and the ALSPAC Study Team. Umbilical cord and maternal blood red cell fatty acids and early childhood wheezing and eczema. *The Journal of Allergy and Clinical Immunology* 2004; **114(3)**: 531-537.

Newson R. Generalized power calculations for generalized linear models and more. *The Stata Journal* 2004; **4(4)**: 379-401.

Ladon D, Doherty A, Newson R, Turner J, Bhamra M, Case CP. Changes in metal levels and chromosome aberrations in the peripheral blood of patients after metal-on-metal hip arthroplasty. *The Journal of Arthroplasty* 2004; **19(8) Suppl 1**: 78-83.

Shaheen SO, Newson RB, Henderson AJ, Headley JE, Stratton FD, Jones RW, Strachan DP, the ALSPAC Study Team. Prenatal paracetamol exposure and risk of asthma and elevated IgE in childhood. *Clinical and Experimental Allergy* 2005; **35(1)**: 18-25.

Davies AP, Sood A, Lewis AC, Newson R, Learmonth ID, Case CP. Metal-specific differences in levels of DNA damage caused by synovial fluid recovered at revision arthroplasty. *Journal of Bone & Joint Surgery* 2005; **87(10)**:1439-44.

Newson R. Efficient calculation of jackknife confidence intervals for rank statistics. *Journal of Statistical Software* 2006; **15(1)**: 1-10.

Glaviano A, Nayak V, Cabuy E, Baird DM, Yin Z, Newson R, Ladon D, Rubio MA, Slijepcevic P, Lyng F, Mothersill C, Case CP. Effects of hTERT on metal ion-induced genomic instability. *Oncogene* 2006; **25(24)**: 3424-3435.

Newson R. Confidence intervals for rank statistics: Somers' *D* and extensions. *The Stata Journal* 2006; **6(3)**:309-334.

Newson R. Confidence intervals for rank statistics: Percentile slopes, differences, and ratios. *The Stata Journal* 2006; **6(4)**: 497-520.

Shaheen SO, Hines M, Newson RB, Wheeler M, Herrick DRM, Strachan DP, Jones RW, Burney PGJ, Henderson AJ. Maternal testosterone in pregnancy and atopic outcomes in childhood. *Allergy* 2006; **62(1)**: 25-32.

Hutchinson M, Gurney S, Newson R. GDNF in Parkinson disease: An object lesson in the tyranny of type II. *J Neurosci Methods* 2007; **163**:190-192.

Shaheen SO, Newson RB, Rayman MP, Wong AP-L, Tumilty MK, Phillips JM, Potts JF, Kelly FJ, White PT, Burney PGJ. Randomised, double-blind, placebo-controlled trial of selenium supplementation in adult asthma. *Thorax* 2007; **62**: 483-490.

Okoko BJ, Burney PG, Newson R, Potts J, Shaheen SO. Childhood asthma and fruit consumption in South London. *Eur Respir J* 2007; **29**: 1161-1168.

Papageorgiou I, Yin Z, Ladon D, Baird D, Lewis AC, Sood A, Newson R, Learmonth ID, Case CP. Genotoxic effects of particles of surgical cobalt chrome alloy on human cells of different age *in vitro*. *Mutat Res* 2007; **619**: 45-58.

Papageorgiou I, Brown C, Schins R, Singh S, Newson R, Davis S, Fisher J, Ingham E, Case CP. The effect of nano- and micron-sized particles of cobalt-chromium alloy on human fibroblasts *in vitro*. *Biomaterials* 2007; **28**:2946-2958.

Forbes L, Harvey S, Jarvis D, Luczynska C, Newson R, Price J, Burney P. Risk factors for accident and emergency attendance for asthma in inner city children. *Thorax* 2007; **62**: 855-860.

Bernardini S, Doherty A, Newson R, Turner J, Fairman B, Bhamra M, Thomas T, Case CP. Increased metal levels and chromosomal aberrations in patients with metal on metal total hip replacement. *Drug Metab Rev* 2007; **35**:97-97.

Burney PGJ, Newson RB, Burrows MS, Wheeler DM. The effects of allergens in outdoor air on both atopic and nonatopic subjects with airway disease. *Allergy* 2008; **63**(5):542-546.

Papageorgiou I, Shadrick V, Davis S, Hails L, Schins R, Newson R, Fisher J, Ingham E, Case CP. Macrophages detoxify the genotoxic and cytotoxic effects of surgical cobalt chrome alloy particles but not quartz particles on human cells *in vitro*. *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* 2008; **643**:11-19.

Glaviano A, Mothersill C, Case CP, Rubio MA, Newson R, Lyng F. (05 Sep 2008). Effects of hTERT on genomic instability caused by either metal or radiation or combined exposure. *Mutagenesis* 2009; **24**:25-33.

Shaheen SO, Northstone K, Newson RB, Emmett P, Sherriff A, Henderson J. Dietary patterns in pregnancy and respiratory and atopic outcomes in childhood. *Thorax* 2009; **64**: 411-417.

Bhabra G, Sood A, Fisher B, Cartwright L, Saunders M, Evans WH, Surprenant A, Lopez-Castejon G, Mann S, Davis SA, Lauren A. Hails, LA, Ingham E, Paul Verkade P, Jon Lane J, Heesom K, Newson R, Case CP. Nanoparticles can cause DNA damage across a cellular barrier. *Nature Nanotechnology* 2009; **4**(12): 876-883.

Cogan N, Baird DM, Phillips R, Crompton L, Caldwell M, Rubio MA, Newson R, Lyng F, Case CP. DNA damaging bystander signalling from stem cells, cancer cells and fibroblasts

after Cr(VI) exposure and its dependence on telomerase. *Mutational Research* 2010; **683**: 1-8.

Minelli C, Granell R, Newson R, Rose-Zerilli MJ, Torrent M, Ring SM, Holloway JW, Shaheen SO, Henderson AJ. Glutathione-S-transferase genes and asthma phenotypes: a HuGE systematic review and meta-analysis including unpublished data. *International Journal of Epidemiology* 2010, **39**(2): 539-562.

Parry MC, Bhabra G, Sood A, Machado F, Cartwright L, Saunders M, Ingham E, Newson R, Blom AW, Case CP. Thresholds for indirect DNA damage across cellular barriers for orthopaedic biomaterials. *Biomaterials* 2010; **31**: 4477-4483.

Figgitt M, Newson R, Leslie IJ, Fisher J, Ingham E, Case CP. The genotoxicity of physiological concentrations of chromium (Cr(III) and Cr(VI)) and cobalt (Co(II)): An *in vitro* study. *Mutat Res.* 2010; **688**: 53-61.

Shaheen SO, Newson RB, Davey Smith G, Henderson AJ. Prenatal paracetamol exposure and asthma: further evidence against confounding. *Int J Epidemiol.* 2010; **39**: 790-794.

Henderson AJ, Newson RB, Rose-Zerilli M, Ring SM, Holloway JW, Shaheen SO. Maternal Nrf2 and glutathione-S-transferase polymorphisms do not modify associations of prenatal tobacco smoke exposure with asthma and lung function in school-aged children. *Thorax* 2010; **65**:897-902.

Newson RB. Comparing the predictive power of survival models using Harrell's *c* or Somers' *D*. *The Stata Journal* 2010; **10**(3): 339–358.

Newson RB. Frequentist *q*-values for multiple-test procedures. *The Stata Journal* 2010; **10**(4): 568–584.

Shaheen SO, Newson RB, Ring SM, Rose-Zerilli MJ, Holloway JW, Henderson AJ. Prenatal and infant acetaminophen exposure, antioxidant gene polymorphisms, and childhood asthma. *Journal of Allergy and Clinical Immunology* 2010; **126**: 1141-8.e7.

Tomassen P, Newson RB, Hoffmans R, Lotvall J, Cardell L, Gunnbjornsdottir M, Thilising T, Matricardi P, Kramer U, Makowska JS, Brozek G, Gjomarkaj M, Howarth P, Loureiro C, Toskala E, Fokkens W, Bachert C, Burney P, Jarvis D. Reliability of EP3OS symptom criteria and nasal endoscopy in the assessment of chronic rhinosinusitis – a GA<sup>2</sup>LEN study. *Allergy* 2011; **66**: 556-561.

Hastan D, Fokkens WJ, Bachert C, Newson RB, Bislimovska J, Bockelbrink A, Bousquet PJ, Brozek G, Bruno A, Dahlen SE, Forsberg B, Gunnbjornsdottir M, Kasper L, Kramer U, Kowalski ML, Lange B, Lundback B, Salagean E, Todo-Bom A, Tomassen P, Toskala E, van Drunen CM, Bousquet J, Zuberbier T, Jarvis D, Burney P. Chronic rhinosinusitis in Europe - an underestimated disease. A GA<sup>2</sup>LEN study. *Allergy* 2011; **66**(9): 1216-1223.

Sood A, Salih S, Roh D, Lacharme-Lora L, Parry M, Hardiman B, Keehan R, Grummer R, Winterhager E, Gokhale PJ, Andrews PW, Abbott C, Forbes K, Westwood M, Aplin JD, Ingham E, Papageorgiou I, Berry M, Liu J, Dick AD, Garland RJ, Williams N, Singh R, Simon AK, Lewis M, Ham J, Roger L, Baird DM, Crompton LA, Caldwell MA, Swalwell H, Birch-Machin M, Lopez-Castejon G, Randall A, Lin H, Suleiman MS, Evans WH, Newson R, Case CP. Signalling of DNA damage and cytokines across cell barriers exposed to nanoparticles depends on barrier thickness. *Nature Nanotechnology* 2011; **6**: 824-833.

Figgitt M, Newson R, Leslie I, Fisher J, Ingham E, Case C. Genomic instability induced by orthopaedic wear debris in cultured human fibroblasts. *Toxicology* 2011; **290**: 115-116.

Newson RB. From resultsets to resultstables in Stata. *The Stata Journal* 2012; **12(2)**: 191–213.

Newson RB. Sensible parameters for univariate and multivariate splines. *The Stata Journal* 2012; **12(3)**: 479-504.

Jarvis D, Newson R, Lotvall J, Hastan D, Tomassen P, Keil T, Gjomarkaj M, Forsberg B, Gunnbjornsdottir M, Minov J, Brozek G, Dahlen SE, Toskala E, Kowalski ML, Olze H, Howarth P, Krämer U, Baelum J, Loureiro C, Kasper L, Bousquet PJ, Bousquet J, Bachert C, Fokkens W, Burney P. Asthma in adults and its association with chronic rhinosinusitis: the GA<sup>2</sup>LEN survey in Europe. *Allergy* 2012; **67**: 91-98.

Newson RB. Bonferroni and Holm approximations for Šidák and Holland–Copenhaver  $q$ -values. *The Stata Journal* 2013; **13(2)**: 379-381.

Gnatiuc L, Kato B, Matheson MC, Newson RB, Jarvis DL. The association of asthma with BMI and menarche in the 1958 British Birth Cohort. *Journal of Asthma* 2013; **50**: 751-758.

Brown C, Lacharme-Lora L, Mukonoweshuro B, Sood A, Newson RB, Fisher J, Case CP, Ingham E. Consequences of exposure to peri-articular injections of micro- and nano-particulate cobalt-chromium alloy. *Biomaterials* 2013; **34**: 8564-8580.

Newson RB. Attributable and unattributable risks and fractions and other scenario comparisons. *The Stata Journal* 2013; **13**: 672-698.

Tomassen P, Jarvis D, Newson R, Van Ree R, Forsberg B, Howarth P, Janson C, Kowalski ML, Krämer U, Matricardi PM, Middelveld RJ, Todo-Bom A, Toskala E, Thilising T, Brożek G, Van Drunen C, Burney P, Bachert C. *Staphylococcus aureus* enterotoxin-specific IgE is associated with asthma in the general population: a GA<sup>2</sup>LEN study. *Allergy* 2013; **68**: 1289-1297.

Newson RB, Jones M, Forsberg B, Janson C, Bossios A, Dahlen S-E, Toskala EM, Al-Kalemji A, Kowalski ML, Rymarczyk B, Salagean EM, van Drunen CM, Bachert C, Wehrend T, Krämer U, Mota-Pinto A, Burney P, Leynaert B, Jarvis D. The association of asthma, nasal allergies and positive skin prick tests with obesity, leptin and adiponectin. *Clinical and Experimental Allergy* 2014; **44**: 250-260.

Newson RB, van Ree R, Forsberg B, Janson C, Lötvalld J, Dahlén S-E, Toskala EM, Bælum J, Brożek GM, Kasper L, Kowalski ML, Howarth PH, Fokkens WJ, Bachert C, Keil T, Krämer U, Bislimovska J, Gjomarkaj M, Loureiro C, Burney PGJ, Jarvis D. Geographical variation in the prevalence of sensitisation to common aeroallergens in adults: The GA<sup>2</sup>LEN survey. *Allergy* 2014; **69**: 643-651.

Burney PGJ, Patel J, Newson R, Minelli C, Naghavi M. Global and regional trends in COPD mortality, 1990-2010. *European Respiratory Journal* 2015; **45**: 1239–1247.

Sepanlou SG, Newson RB, Poustchi H, Malekzadeh MM, Rezanejad Asl P, Etemadi A, Khademi H, Islami F, Pourshams A, Pharoah PD, Abnet CC, Brennan P, Boffetta P, Dawsey SM, Kamangar F, Malekzadeh R. Cardiovascular Disease Mortality and Years of Life Lost Attributable to Non-optimal Systolic Blood Pressure and Hypertension in Northeastern Iran. *Archives of Iranian Medicine* 2015; **18(3)**: 144-152.

McKay AJ, Newson RB, Soljak M, Riboli E, Car J, Majeed A. Are primary care factors associated with hospital episodes for adverse drug reactions? A national observational study. *BMJ Open* 2015; **5**: e008130.doi:10.1136/bmjopen-2015-008130.

Moore E, Palmer T, Newson R, Majeed A, Quint JK, Soljak MA. Pulmonary rehabilitation as a mechanism to reduce hospitalizations for acute exacerbations of chronic obstructive pulmonary disease: A systematic review and meta-analysis. *Chest* 2016; **150(4)**: 837-859.

Amaral AFS, Newson RB, Abramson MJ, Anto JM, Bono R, Corsico AG, de Marco R, Demoly P, Forsberg B, Gislason T, Heinrich J, Huerta I, Janson C, Jogi R, Kim J-L, Maldonado J, Rovira JM-M, Neukirch C, Nowak D, Pin I, Probst-Hensch N, Raheison-Semjen C, Svanes C, Landa IU, van Ree R, Versteeg SA, Weyler J, Zock J-P, Burney PGJ, Jarvis DL. Changes in IgE sensitization and total IgE levels over 20 years of follow-up. *Journal of Allergy and Clinical Immunology* 2016; **137(6)**: 1788-1795.

Newson RB. Stata Tip 127: Use `capture` noisily groups. *The Stata Journal* 2017; **17(2)**: 511-514.

Moore E, Newson R, Joshi M, Palmer T, Rothnie KJ, Singh S, Majeed A, Soljak M, Quint JK, 2017, Effects of pulmonary rehabilitation on exacerbation number and severity in people with COPD: An historical cohort study using electronic health records. *Chest* 2017; **152(6)**: 1188–1202.

Jarvis DL, Newson R, Janson C, Corsico A, Heinrich J, Anto JM, Abramson M, Kirsten A, Zock JP, Bono R, Demoly P, Leynaert B, Raheison C, Pin I, Gislason T, Jogi R, Schlunssen V, Svanes C, Watkins J, Weyler J, Pereira-Vega A, Urrutia I, Gullon JA, Forsberg B, Probst-Hensch N, Boezen HM, Martinez-Moratalla J, Accordini S, de Marco R, Burney P. Prevalence of asthma-like symptoms with ageing: a European cohort study. *Thorax* 2018, **73(1)**: 37-48.

Zhang S, Tomata Y, Newson RB, Sugawara Y, Tsugi I. Combined healthy lifestyle

behaviours and incident disability in an elderly population: the Ohsaki Cohort 2006 Study. *Journal of Epidemiology and Community Health* 2018; 72(8): 679-684.

Su B, Newson R, Soljak H, Soljak M. Associations between post-operative rehabilitation of hip fracture and outcomes: national database analysis. *BMC Musculoskeletal Disorders* 2018; **19**: 211-219.

Razak Y, Newson R, Collins R, Thomas H, Hamid F, Willis T, Majeed A. Key treatment target achievement in diabetes care uncorrelated to deprivation scores: A case study in West London. *Diabetic Medicine* 2018; **35**: 5.

Lovell B, Dhillon R, Khader A, Seita A, Al-Jadba G, Rawaf S, Newson R. Delivering and evaluating a scalable training model for strengthening family medicine in resource-limited environments: the Gaza experience. *British Journal of General Practice Open* 2019; **3(2)**: bjgpopen19X101647. DOI: <https://doi.org/10.3399/bjgpopen19X101647>.

Bai L, Zhou JB, Zhou T, Newson RB, Cardoso MA. Incident gout and weight change patterns: a retrospective cohort study of US adults. *Arthritis Research and Therapy* 2021; **23**: 69. DOI: <https://doi.org/10.1186/s13075-021-02461>

Falcaro M, Newson RB, Sasieni P. Stata tip 146: Using `margins` after a Poisson regression model to estimate the number of events prevented by an intervention. *The Stata Journal* 2022; **22(2)**: 460-464.

Bottle A, Newson R, Faitna P, Hayhoe B, Cowie MR. Changes in heart failure management and long-term mortality over 10 years: observational study. *Open Heart* 2022; **9**:e001888. doi:10.1136/openhrt-2021-001888

Bottle A, Newson R, Faitna P, Hayhoe B, Cowie MR. Risk prediction of mortality for patients with heart failure in England: observational study in primary care. *ESC Heart Failure* 2023; **10**: 824-833.

Newson RB, Falcaro M. Robit regression in Stata. *The Stata Journal* 2023; **23(3)**: 658-682. <https://doi.org/10.1177/1536867X23119528>

## THESES

Newson RB. *Competition between strains of bacteria with controlled and uncontrolled operons* [BSc dissertation]. Nottingham, UK: Nottingham University, 1977.

Newson RB. *A model for negative intergenerational correlation of cell lifetime with application to cells in the root cap of a plant* [MSc dissertation]. Reading, UK: Reading University, 1979.

Newson RB. *An analysis of cinematographic cell division data using U-statistics* [DPhil dissertation]. Brighton, UK: Sussex University, 1987.

## INVITED PAPERS, REVIEWS AND CHAPTERS IN BOOKS

Roger B Newson: Curriculum vitae. Page 15 of 26.

Newson R. Book review of: Balakrishnan N, Cohen AC. *Order Statistics and Inference*. 1991; San Diego, California: Academic Press. In: *Biometrics* 1992; **48**: 657.

Newson R. Survival Analysis. In: Guiloff RJ, editor. *Clinical Trials in Neurological Disease*. London: Springer-Verlag; 2001.

Newson R. Review of Generalized Linear Models and Extensions by Hardin and Hilbe. *The Stata Journal* 2001; **1**: 98-100.

Newson R. Review of Generalized Latent Variable Models by Skrondal and Rabe-Hesketh. *The Stata Journal* 2005; **5(1)**: 130-133.

Newson R. Stata tip 1: The `eform()` option of `regress`. In: StataCorp, editor. *Thirty-three Stata Tips*. College Station, TX: Stata Press; 2006.

Newson R. Stata tip 5: Ensuring programs preserve dataset order. In: StataCorp, editor. *Thirty-three Stata Tips*. College Station, TX: Stata Press; 2006.

Newson R. Stata tip 13: `generate` and `replace` use the current sort order. In: StataCorp, editor. *Thirty-three Stata Tips*. College Station, TX: Stata Press; 2006.

## LETTERS TO REFEREED JOURNALS

Lawrenson RA, Leydon G, Newson RB, Feher MD. Coronary heart disease in women: positive association with past hysterectomy and possible benefits of hormone replacement therapy. *Diabetes Care* 1999; **22(5)**: 856-57.

Urdang M, Ansede-Luna G, Muller B, Newson R, Lacey A, O'Shea D. An independent study into the accuracy of home blood glucose meters. *Lancet* 1999; **353**: 1065-6.

Mallon E, Newson R, Bunker CB. HLA-Cw6 and the genetic predisposition to psoriasis: a meta-analysis of published serological studies. *Journal of Investigative Dermatology* 1999; **113(4)**: 693-695.

Newson R. Letter in reply to Laumann A. Appropriate Controls Are Essential in Assessing the Relationship Between Circumcision and Penile Dermatoses. *Archives of Dermatology* 2001; **137**: 503-504.

## CONFERENCE ABSTRACTS

Lawrenson RA, Leydon GM, Newson RB, Feher MD. Coronary heart disease in women with diabetes: the influence of diabetic treatment, hysterectomy and use of hormone replacement therapy. *Report from the Second Conference of Primary Care Diabetes UK*; 1997 Nov 14-15; Harrogate, UK. London: British Diabetic Association; 1998. p. 17.

Leydon GM, Lawrenson RA, Williams TJ, Newson RB, Feher MD. Patterns of contraception in

young UK women with insulin dependent diabetes mellitus (IDDM). *Report from the Second Conference of Primary Care Diabetes UK*; 1997 Nov 14-15; Harrogate, UK. London: British Diabetic Association; 1998. p. 19.

Tachakra S, Lynch M, Newson R, Stinson A, Sivakumar A, Hayes J and Bak J. Comparing telemedical with face to face consultation for remote trauma management. *Proceedings of Telemed 98* (published as a Supplement to the *Journal of Telemedicine and Telecare*). 1998; London, UK. Abstract P236-237.

Mitchell SM, Zambarakji HJ, Newson RB, Nelson MR. CMV diagnoses and progression of CD4 counts and HIV viral load measurements in HIV patients on HAART. To be published in the Report from: *ARVO Annual Meeting*; 1999 May 9-14; Fort Lauderdale, Florida, USA.

Beck EJ, Power A, Newson R for the NPMS Steering Group. Decreased Morbidity and Use of Hospital Services with Increased Uptake of Anti-Retroviral Therapy in England 1996-1997. *HIV Medicine: 5th Annual Meeting of the British HIV Association*. 1999 March 26-28; Cambridge, UK. Abstract P26. In press 1999.

Beck EJ, Power A, Newson R for the NPMS Steering Group. Monitoring the use of HIV service provision: the NPMS 1996-1997. *Canadian Journal of Infectious Diseases: 8th Annual Conference on HIV/AIDS Research*. 1999 May 1-4; Victoria, British Columbia, Canada. In press 1999.

Gibbs RGJ, Todd JC, Newson R, Greenhalgh RM, Davies AH. Initial Management Of Cerebrovascular Disease By General Practitioners. *Vascular Surgical Society of Great Britain and Ireland. Annual General Meeting*. 1999 Nov 24-26; Leicester, UK. In press.

Tachakra S, Dutton D, Newson R, Hayes J, Sivakumar A, Jaye P, Bak J. How do teleconsultations for remote trauma management change over a period of time? *Proceedings of Telemed 99* (published as a Supplement to the *Journal of Telemedicine and Telecare*). 1999 Nov 29-Dec 1; London, UK. Abstract P12 - 15

Tachakra S, Lynch M, Newson R, Stinson A, Sivakumar A, Hayes J, Bak J. A comparison of telemedicine with face to face consultation. *Proceedings of Telemed 99* (published as a Supplement to the *Journal of Telemedicine and Telecare*). 1999 Nov 29-Dec 1; London, UK. Abstract P178 - 181.

Tachakra S, Dutton D, Newson R, Bak J, Jaye P, Sivakumar A, Hayes J. Level of diagnostic confidence and accuracy in teleradiology for minor injuries work. *Proceedings of Telemed 99* (published as a Supplement to the *Journal of Telemedicine and Telecare*). 1999 Nov 29-Dec 1; London, UK. Abstract P196.

Newson RB, Shaheen SO, Burney PGJ. Paracetamol sales and prevalence of childhood atopic disease: ecological analysis of ISAAC data. *Am J Respir Crit Care Med* 2000; **161** (3 **Suppl**):A499.

Shaheen SO, Newson RB, Chinn S, Burney PGJ. Paracetamol sales in relation to asthma,



rhinitis, bronchial responsiveness and IgE in adults: ecological analysis of ECRHS data. *Am J Respir Crit Care Med* 2000; **161 (3 Suppl)**: A499.

Shaheen SO, Newson RB, Henderson AJ, Emmett PM, Sherriff AM, Cooke M, Golding J, Burney PGJ. Umbilical cord trace elements and minerals and risk of wheezing and eczema in early childhood: a birth cohort study. *European Respiratory Journal* 2002; **20 (38 Suppl)**: P175s.

Newson RB, Shaheen SO, Henderson AJ, Emmett PM, Sherriff AM, Horrobin DF, Calder PC, Golding J, Burney PGJ. Umbilical cord blood and maternal blood *n-6* and *n-3* fatty acids and risk of wheezing and eczema in early childhood: birth cohort study. *European Respiratory Journal* 2002; **20 (38 Suppl)**: P176s.

Shaheen SO, Newson RB, Emmett PM, Rogers IS, Sherriff A, Henderson AJ. Maternal intake of selenium and iron in pregnancy and risk of wheezing in early childhood: birth cohort study. *American Journal of Respiratory Critical Care Medicine* 2003; **167 (7 Suppl)**: A443.

Shaheen SO, Newson RB, Henderson AJ, The ALSPAC Study Team. Paracetamol use in late pregnancy and risk of asthma and wheezing in childhood: birth cohort study. *European Respiratory Journal* 2003; **22 (45 Suppl)**: P563s.

Shaheen S, Newson R, Henderson J, Emmett P, Rogers I, The ALSPAC Study Team. Maternal diet in pregnancy and risk of atopic disease in childhood: birth cohort study. *European Respiratory Journal* 2003; **22 (45 Suppl)**: P564s.

Newson R, Shaheen S, Henderson J, Emmett P, Cooke M, Horrobin D, Calder P, The ALSPAC Study Team. Prenatal exposure to *n-6/n-3* fatty acids, trace elements and minerals and risk of atopic disease in childhood: birth cohort study. *European Respiratory Journal* 2003; **22 (45 Suppl)**: P564s.

Newson RB, Shaheen SO, Henderson AJ, Strachan DP, Emmett PM, Calder PC, The ALSPAC Study Team. Prenatal nutrition and childhood atopy and IgE: birth cohort study. *European Respiratory Journal* 2004; **24 (48 suppl)**: P170S.

Shaheen SO, Newson RB, Henderson AJ, Strachan DP, The ALSPAC Study Team. Prenatal paracetamol exposure and risk of atopy and elevated IgE in childhood: birth cohort study. *European Respiratory Journal* 2004; **24 (48 suppl)**: P440S.

Shaheen SO, Newson RB, Henderson AJ, Strachan DP, Stratton FD, Jones RW and the ALSPAC Study Team. Prenatal testosterone exposure and risk of atopy, high IgE and atopic disease: birth cohort study. *Abstracts 22-24 September 2004, The Third Conference of Epidemiological Longitudinal Studies in Europe* 2004; p51.

Newson RB, Luczynska CM, Burrows MG, Burney PGJ. Allergenicity of PM<sub>10</sub> as a predictor of acute respiratory events in asthma-prone patients in south east London: case-case study. *European Respiratory Journal* 2006; **26 (49 suppl)**: P18S.

Shaheen SO, Newson R, Emmett P, Sherriff A, Henderson J, The ALSPAC Study Team. Maternal diet in pregnancy and childhood lung function. *European Respiratory Journal* 2006; **26 (49 suppl)**: P501S.

Shaheen SO, Wong APL, Tumilty MK, Phillips JM, Potts JF, Newson RB, Kelly FJ, White PT, Rayman MP, Burney PGJ. Randomised double blind placebo controlled trial of selenium supplementation in adult asthma. *European Respiratory Journal* 2006; **28 (50 suppl)**: P144S.

Okoko BJ, Shaheen SO, Newson R, J. Potts J, Burney PG. Childhood asthma and fruit consumption in South London. *European Respiratory Journal* 2006; **28 (50 suppl)**: P239S.

Henderson AJ, Newson RB, Sherriff A, Shaheen SO. Paracetamol use during late pregnancy and bronchial responsiveness and lung function in childhood. *European Respiratory Journal* 2006; **28 (50 suppl)**: P269S.

Shaheen S, Henderson J, Newson R, Ring S, Pembrey M, Rose-Zerilli M, Holloway J. E1849: Effects of aryl hydrocarbon receptor and cytochrome p450 1a1 polymorphisms on childhood lung function and asthma [abstract on the Internet]. 2007 Sep [cited 2008 Nov]. Available from:

[http://www.ersnet.org/learning\\_resources\\_player/abstract\\_print\\_07/main\\_frameset.htm](http://www.ersnet.org/learning_resources_player/abstract_print_07/main_frameset.htm)

Henderson J, Shaheen S, Newson R, Ring S, Pembrey M, Rose-Zerilli M, Holloway J. E1850: Effects of glutathione s-transferase polymorphisms on childhood asthma phenotypes and atopy [abstract on the Internet]. 2007 Sep [cited 2008 Nov]. Available from:

[http://www.ersnet.org/learning\\_resources\\_player/abstract\\_print\\_07/main\\_frameset.htm](http://www.ersnet.org/learning_resources_player/abstract_print_07/main_frameset.htm)

Shaheen SO, Newson RB, Holloway JW, Rose-Zerilli MJ, Pembrey ME, Ring SM,, Henderson AJ. Maternal and child glutathione-S-transferase M1 polymorphism modifies risk of childhood asthma associated with prenatal paracetamol exposure. *Early Hum Dev* 2007; **83 Supplement 1**, Pages S59-S60.

Henderson AJ, Newson RB, Holloway JW, Rose-Zerilli MJ, Pembrey ME, Ring SM, Shaheen SO. Maternal and child glutathione-S-transferase M1 and T1 polymorphisms modify effect of maternal smoking in pregnancy on childhood lung function. *Early Hum Dev* 2007; **83 Supplement 1**, Page S97.

Shaheen S, Newson R, Emmett P, Sherriff A, Henderson J. P3763: Vitamin D intake in pregnancy and respiratory and atopic outcomes in childhood. 2008 Oct [cited 2008 Nov]. Available from:

[http://www.ersnet.org/learning\\_resources\\_player/abstract\\_print\\_08/main\\_frameset.htm](http://www.ersnet.org/learning_resources_player/abstract_print_08/main_frameset.htm)

Newson RB, Shaheen SO, Northstone K, Emmett PM, Sherriff A, Henderson AJ. P3778: Dietary patterns in pregnancy and respiratory and atopic outcomes in childhood. 2008 Oct [cited 2008 Nov]. Available from:

[http://www.ersnet.org/learning\\_resources\\_player/abstract\\_print\\_08/main\\_frameset.htm](http://www.ersnet.org/learning_resources_player/abstract_print_08/main_frameset.htm)

Jarvis D, Newson R, Potts J, Burney P, Bachert C, Fokkens W, GA2LEN. Chronic rhinosinusitis and asthma: the GA2LEN postal survey. 2009 Sep [cited 2009 Sep]. Available from

[http://www.ersnet.org/learning\\_resources\\_player/abstract\\_print\\_09/main\\_frameset.htm](http://www.ersnet.org/learning_resources_player/abstract_print_09/main_frameset.htm)

Shaheen S, Newson R, Relton C, Henderson J, Ring S, Davey-Smith G, Holloway J. Relation of cord blood DNA methylation to prenatal paracetamol exposure and childhood asthma; 2009 Sep [cited 2009 Sep]. Available from

[http://www.ersnet.org/learning\\_resources\\_player/abstract\\_print\\_09/main\\_frameset.htm](http://www.ersnet.org/learning_resources_player/abstract_print_09/main_frameset.htm).

Greenfield G, Ramzan FA, Newson RB, Majeed A, Gnani S. Frequent attendances to National Health Service general practitioner-led urgent care centres in London: an observational study. *Lancet* 2015; **386 (S40)**: S40. Available from doi:10.1016/S0140-6736(15)00878-8.

Razak Y, Newson R, Collins R, Thomas H, Hamid F, Willis T, Majeed A. Key treatment target achievement in diabetes care uncorrelated to deprivation scores: A case study in West London. *Diabetic Medicine* 35(S1): 5.

## TECHNICAL REPORTS

Newson R. dm65: A program for saving a model fit as a dataset. College Station, TX: *Stata Technical Bulletin* 1999 May; **STB-49**: 2-5.

Newson R. sg114: rglm - Robust variance estimates for generalized linear models. College Station, TX: *Stata Technical Bulletin* 1999 August; **STB-50**: 27-33.

Newson R. snp15: somersd – Confidence intervals for “nonparametric” statistics and their differences. College Station, TX: *Stata Technical Bulletin* 2000 May; **STB-55**: 47-55.

Newson R. sg151: B-splines and splines parameterized by their values at reference points on the  $x$ -axis. College Station, TX: *Stata Technical Bulletin* 2000 September; **STB-57**: 20-27.

Newson R. snp15.1: Update to somersd. College Station, TX: *Stata Technical Bulletin* 2000 September; **STB-57**: 35.

Newson R. dm65.1: Update to a program for saving a model fit as a dataset. College Station, TX: *Stata Technical Bulletin* 2000 November; **STB-58**: 2.

Newson R. snp15.2: Update to somersd. College Station, TX: *Stata Technical Bulletin* 2000 November; **STB-58**: 30.

Newson R. snp16: Robust confidence intervals for median and other percentile differences between two groups. College Station, TX: *Stata Technical Bulletin* 2000 November; **STB-58**: 30-35.

Newson R. snp15.3: Update to somersd. College Station, TX: *Stata Technical Bulletin* 2001

June; **STB-61**: 2.

Newson R. snp16.1: Update to cendif. College Station, TX: *Stata Technical Bulletin* 2001 June; **STB-61**: 2.

### CONFERENCE PRESENTATIONS (ORAL)

Newson R. Confidence intervals for rank order statistics: Somers'  $D$ , Kendall's tau- $a$  and their differences. *6th UK Stata User Meeting*, 2000 May 15, London, UK.

Newson R. Splines with parameters that can be explained in words to non-mathematicians. *7th UK Stata User Meeting*, 2001 May 15, London, UK.

Newson R. Creating plots and tables of estimation results using `parmest` and friends. *8th UK Stata User Meeting*, 2002 May 20, London, UK.

Shaheen SO, Newson RB, Henderson AJ, Emmett PM, Sherriff AM, Cooke M, Golding J, Burney PGJ. Umbilical cord trace elements and minerals and risk of wheezing and eczema in early childhood: a birth cohort study. Presented at: *12th European Respiratory Society Annual Congress*, 2002 September 15, Stockholm, Sweden.

Newson RB, Shaheen SO, Henderson AJ, Emmett PM, Sherriff AM, Horrobin DF, Calder PC, Golding J, Burney PGJ. Umbilical cord blood and maternal blood  $n-6$  and  $n-3$  fatty acids and risk of wheezing and eczema in early childhood: a birth cohort study. Presented at: *12th European Respiratory Society Annual Congress*, 2002 September 15, Stockholm, Sweden.

Shaheen SO, Newson RB, Emmett PM, Rogers IS, Sherriff A, Henderson A.J. Maternal intake of selenium and iron in pregnancy and risk of wheezing in early childhood: birth cohort study. Presented at *99th American Thoracic Society International Conference*, 2003 May 16-21, Seattle, Washington, USA.

Newson R. Multiple test procedures and smile plots. *9th UK Stata User Meeting*, 2003 May 21, London, UK.

Shaheen SO, Newson RB, Henderson AJ, The ALSPAC Study Team. Paracetamol use in late pregnancy and risk of asthma and wheezing in childhood: birth cohort study. Presented at: *13th European Respiratory Society Annual Congress*, 2003 October 1; Vienna, Austria.

Shaheen S, Newson R, Henderson J, Emmett P, Rogers I, The ALSPAC Study Team. Maternal diet in pregnancy and risk of atopic disease in childhood: birth cohort study. Presented at: *13th European Respiratory Society Annual Congress*, 2003 October 1, Vienna, Austria.

Newson R, Shaheen S, Henderson J, Emmett P, Cooke M, Horrobin D, Calder P, The ALSPAC Study Team. Prenatal exposure to  $n-6/n-3$  fatty acids, trace elements and minerals and risk of atopic disease in childhood: birth cohort study. Presented at: *13th European*

*Roger B Newson: Curriculum vitae. Page 21 of 26.*

*Respiratory Society Annual Congress, 2003 October 1, Vienna, Austria.*

Newson R. From datasets to resultssets in Stata. *10th UK Stata User Meeting, 2004 June 29; London, UK.*

Shaheen SO, Newson RB, Henderson AJ, Strachan DP, The ALSPAC Study Team. Prenatal paracetamol exposure and risk of atopy and elevated IgE in childhood: birth cohort study. Presented at: *14th European Respiratory Society Annual Congress, 2004 September 6; Glasgow, UK.*

Shaheen SO, Newson RB, Henderson AJ, Strachan DP, Stratton FD, Jones RW and the ALSPAC Study Team. Prenatal testosterone exposure and risk of atopy, high IgE and atopic disease: birth cohort study. Presented at: *3rd Conference of Epidemiological Longitudinal Studies in Europe, 2004 September 24, Bristol, UK.*

Newson R. Generalized confidence interval plots using commands or dialogs. *11th UK Stata User Meeting, 2005 May 17, London, UK.*

Newson RB, Luczynska CM, Burrows MG, Burney PGJ. Allergenicity of PM<sub>10</sub> as a predictor of acute respiratory events in asthma-prone patients in south east London: case-case study. Presented at: *15th European Respiratory Society Annual Congress, 2005 September 18, Copenhagen, Denmark.*

Newson R. Resultssets, resultsspreadsheets and resultsplots in Stata. *4th German Stata User Meeting, 2006 March 31, Mannheim, Germany.*

Newson R. On the central role of Somers' *D*. *12th UK Stata User Meeting, 2006 September 11, London, UK.*

Brown C, Schins R, Singh S, Newson R, Davis S, Fisher J, Ingham E. The effect of nano- and micron-sized particles of cobalt-chromium alloy on human fibroblasts *in vitro*. Presented at: *2nd International Congress of Nanobiotechnology and Nanomedicine (NANO BIO 2007), 2007 June 18, San Francisco, CA.*

Newson RB. Robust confidence intervals for Hodges-Lehmann median differences. *13th UK Stata User Meeting, 2007 September 10-11, London, UK.*

Shaheen SO, Newson RB, Holloway JW, Rose-Zerilli MJ, Pembrey ME, Ring SM, Henderson AJ. Maternal and child glutathione-S-transferase M1 polymorphism modifies risk of childhood asthma associated with prenatal paracetamol exposure. *5th International Congress on Developmental Origins of Health & Disease, 2007 6-10 November, Perth, Australia.*

Garcia-Larsen V, Newson RB, Potts JF, Tumilty MK, Shaheen SO. Dietary intake of fruit and childhood asthma. *British Thoracic Society Winter Meeting, 2007 December 5-7, London, UK.*

*Roger B Newson: Curriculum vitae. Page 22 of 26.*

Newson RB. `parmest` and extensions. *14th UK Stata User Meeting*, 2008 September 8-9, London, UK.

Newson, RB. Homoskedastic adjustment inflation factors in model selection. *15th UK Stata User Meeting*, 2009 September 10-11, London, UK.

Newson RB. Post-`parmest` peripherals: `fvregen`, `invaise`, and `qqvalue`. *16th UK Stata User Meeting*, 2010 September 9-10, London, UK.

Newson RB. Sensible parameters for polynomials and other splines. *17th UK Stata User Meeting*, 2011 September 15-16, London, UK.

Newson RB. Scenario comparisons: How much good can we do? *18th UK Stata User Meeting*, 2012 September 13-14, London, UK.

Newson RB. Creating factor variables in resultssets and other datasets. *19th UK Stata User Meeting*, 2013 September 12-13, London, UK.

Newson RB. Easy-to-use packages for estimating rank and spline parameters. *20th UK Stata User Meeting*, 2014 September 11-12, London, UK.

Newson RB. Somers' *D*: A common currency for associations. *21st UK Stata User Meeting*, 2015 September 10–11, London, UK.

Newson RB. The role of Somers' *D* in propensity modelling. *22nd UK Stata User Meeting*, 2016 September 8–9, London, UK.

Newson RB. Ridity splines with applications to propensity weighting. *23rd UK Stata User Meeting*, 2017 September 7-8, London, UK.

Newson RB. A fleet of packages for inputting United Kingdom primary care data. *2018 London Stata Conference*, 2018 September 8-9.

Newson RB. Bland-Altman plots, rank parameters, and calibration ridity splines. *2019 London Stata Conference*, 2019 September 5-6.

Newson RB. From datasets to metadatasets in Stata. *2020 London Stata Conference*, 2020 September 10-11.

Newson RB. Ridity `right`, `left`, `center`, `native` and `foreign`. *2021 London Stata Conference*, 2021 September 9-10.

Newson RB. Resultssets in resultsframes in Stata 16-plus. *2022 London Stata Conference*, 2022 September 8-9.

Newson RB. Customized Markdown and `.docx` tables using `listtab` and `docxtab`. *2023 London Stata Conference*, 2023 September 7-8.



### CONFERENCE POSTER PRESENTATIONS

Leydon GM, Lawrenson RA, Williams TJ, Newson RB, Feher MD. The prescribing of contraception to young women with insulin treated diabetes mellitus (ITDM). Presented at: *Primary Care Diabetes Conference*; 1997 Nov 14-15; Harrogate, UK.

Lawrenson RA, Leydon GM, Newson RB, Feher MD. Coronary heart disease in women with diabetes: the influence of diabetic treatment, hysterectomy and use of hormone replacement therapy. Presented at: *Primary Care Diabetes Conference*; 1997 Nov 14-15; Harrogate, UK.

Easterbrook PJ, Newson R, Ives NJ, Moyle G, Gazzard B. Virologic, Immunologic and Clinical Responses to Five Different Initial Protease Inhibitor Treatment Regimens. Presented at: *6th Conference on Retroviruses and Opportunistic Infections*; 1999 Jan 31-Feb 4; Chicago, Illinois, USA.

Zambarakji HJ, Newson RB, Nelson MR, Mitchell SM. Prevalence and progression of CMV retinitis in the era of highly active antiretroviral therapy. Presented at: *ARVO Annual Meeting*; 1999 May 9-14; Fort Lauderdale, Florida, USA.

Beck EJ, Power A, Newson R for the NPMS Steering Group. Decreased Morbidity and Use of Hospital Services with Increased Uptake of Anti-Retroviral Therapy in England 1996-1997. Presented at: *5th Annual Meeting of the British HIV Association*. 1999 March 26-28; Cambridge, UK.

Beck EJ, Power A, Newson R for the NPMS Steering Group. Monitoring the use of HIV service provision: the NPMS 1996-1997. Presented at: *8th Annual Conference on HIV/AIDS Research*. 1999 May 1-4; Victoria, British Columbia, Canada.

Lawrenson RA, Leydon GM, Williams TJ, Newson RB, Feher MD. Patterns of contraception in UK women with Type 1 diabetes mellitus: a GP database study. Presented at: *15th International Conference on Pharmacoepidemiology*. 1999 August 26; Boston, Massachusetts, USA.

Lawrenson RA, Leydon GM, Newson RB, Feher MD. Coronary heart disease in women with diabetes: association with diabetic treatment, past hysterectomy and hormone replacement therapy. Presented at: *15th International Conference on Pharmacoepidemiology*. 1999 August 26; Boston, Massachusetts, USA.

Newson RB, Shaheen SO, Henderson AJ, Strachan DP, Emmett PM, Calder PC, The ALSPAC Study Team. Prenatal nutrition and childhood atopy and IgE: birth cohort study. Presented at: *14th European Respiratory Society Annual Congress*, 2004 September 5; Glasgow, UK.

Shaheen SO, Newson R, Emmett P, Sherriff A, Henderson J, The ALSPAC Study Team. Maternal diet in pregnancy and childhood lung function. Presented at: *15th European Respiratory Society Annual Congress*, 2005 September 20; Copenhagen, Denmark.



Shaheen SO, Wong APL, Tumilty MK, Phillips JM, Potts JF, Newson RB, Kelly FJ, White PT, Rayman MP, Burney PGJ. Randomised double blind placebo controlled trial of selenium supplementation in adult asthma. Presented at: *16<sup>th</sup> European Respiratory Society Annual Congress*, 2006 September 6; Munich, Germany.

Okoko BJ, Shaheen SO, Newson R, Potts J, Burney PG. Childhood asthma and fruit consumption in South London. Presented at: *16<sup>th</sup> European Respiratory Society Annual Congress*, 2006 September 6; Munich, Germany.

Henderson AJ, Newson RB, Sherriff A, Shaheen SO. Paracetamol use during late pregnancy and bronchial responsiveness and lung function in childhood. Presented at: *16<sup>th</sup> European Respiratory Society Annual Congress*, 2006 September 6, Munich, Germany.

Gerver S, Newson R, Taffé P, Loke W, Anderson M, Easterbrook P. Validation of patient reported year of HIV acquisition using different back-calculation methods among HIV-infected black Caribbeans in the UK: The LIVITY Study. Presented at: *11<sup>th</sup> International Workshop on HIV Observational Databases*, 2007 March 22-25, Monte Carlo, Monaco.

Henderson J, Shaheen S, Newson R, Ring S, Pembrey M, Rose-Zerilli M, Holloway J. Effects of glutathione S-transferase polymorphisms on childhood asthma phenotypes and atopy. *17<sup>th</sup> European Respiratory Society Annual Congress*, 2007 September 15-19, Stockholm, Sweden.

Shaheen S, Henderson J, Newson R, Ring S, Pembrey M, Rose-Zerilli M, Holloway J. Effects of aryl hydrocarbon receptor and cytochrome P450 1A1 polymorphisms on childhood lung function and asthma. *17<sup>th</sup> European Respiratory Society Annual Congress*, 2007 September 15-19, Stockholm, Sweden.

Henderson AJ, Newson RB, Holloway JW, Rose-Zerilli MJ, Pembrey ME, Ring SM, Shaheen SO. Maternal and child glutathione-S-transferase M1 and T1 polymorphisms modify effect of maternal smoking in pregnancy on childhood lung function. *5<sup>th</sup> International Congress on Developmental Origins of Health and Disease*, 2007 6–10 November, Perth, Australia.

Newson RB, Shaheen SO, Northstone K, Emmett PM, Sherriff A, Henderson AJ. Dietary patterns in pregnancy and respiratory and atopic outcomes in childhood. *18<sup>th</sup> European Respiratory Society Annual Congress*, 2008 October 4-8, Berlin, Germany.

Shaheen SO, Newson RB, Emmett PM, Sherriff A, Henderson AJ. Vitamin D intake in pregnancy and respiratory and atopic outcomes in childhood. *18<sup>th</sup> European Respiratory Society Annual Congress*, 2008 October 4-8, Berlin, Germany.

Jarvis D, Newson R, Potts J, Burney P, Bachert C, Fokkens W, GA<sup>2</sup>LEN. Chronic rhinosinusitis and asthma: the GA<sup>2</sup>LEN postal survey. *19<sup>th</sup> European Respiratory Society Annual Congress*, 2009 September 12-16, Vienna, Austria.

Shaheen S, Newson R, Relton C, Henderson J, Ring S, Davey-Smith G, Holloway J. Relation of cord blood DNA methylation to prenatal paracetamol exposure and childhood asthma. *19<sup>th</sup> European Respiratory Society Annual Congress*, 2009 September 12-16, Vienna, Austria.