

## Professor Jane Luise Hutton

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### **Education and Qualifications:**

BSc (Hons) in Mathematics & Statistics (First Class), 1982, Edinburgh

Diploma in Mathematical Statistics, 1983, Cambridge (1982 - 1983)

PhD in Statistics, Diploma of Imperial College, 1986, London (1983 - 1986)

Chartered Statistician, Royal Statistical Society, 1994

### **Honours:**

International Biometric Society Rob Kempton Award 2016.

Suffrage Science: Women in Maths & Computing 2016.

Royal Society Wolfson Research Merit Award, 2013 - 2017.

Commendation, John Maddox Sense about Science, 2019.

Royal Statistical Society Mardia Prize 2023: Statistics and the Law interdisciplinary workshops

### **Appointments held:**

The University of Warwick: Professor (2004), Reader (2002), Senior Lecturer (2000),  
Department of Statistics, October 2000.

Head of Department of Statistics, 2005-2008.

The University of Newcastle: Senior Lecturer

Department of Mathematics & Statistics, January 1996 - September 2000.

The University of Liverpool: Lecturer in Medical Statistics,

Departments of Statistics & Computational Mathematics, and Public Health, Oct 1986 - Dec 1995.

Non-executive Director, Universities Superannuation Fund, Nov 2015 - Oct 2019.

### **Visiting appointments:**

Visiting Professor of Biostatistics, Epidemiology unit,

Cantonal Hospital of the University of Geneva: December 1992 - February 1993.

Visiting Research Fellow, Department of Statistics,

The University of Adelaide: March - June 1993

### **Membership of learned or professional societies:**

Bernoulli Society;

International Biometric Society;

International Statistics Institute, Elected Fellow;

International Society for Biostatistics;

Royal Statistical Society, Chartered Statistician;

## National and international service

### Royal Society

Dorothy Hodgkin Fellowships panel, 2020 - 2025.

Joint organiser: Hooke Discussion meeting: *How should pension liabilities be valued?*, March 2019.

Newton International Fellowships Committee (Physical Science) 2016-2018.

### Royal Statistical Society

Vice-president, 2001 - 2003.

Council member, 1997 - 2002.

Statistics and the Law section committee, Chair 2019 - 2021, 2015 - 2018.

African Institute for Mathematical Sciences support group, 2016 -

Medical section committee, Chair 2002 - 2004, member 1999 - 2002.

Council representative on Council for Registration of Forensic Practitioners, 1998 - 2003.

Research section committee, 1996 - 1999.

Local groups: committee member, treasurer, secretary, 1989 - 1998, 2002, 2022-.

### International Biometric Society

IBS-ISI Liaison, Aug 2016 - Dec 2019.

Member of Education Committee, Jan 2004 - Dec 2005; Jan 2013 - Dec 2019.

Chair of Education Committee, Jan 2002 - Dec 2003.

Chair of Short Course Committee, Sep 2002 - July 2004.

Member of working group on future of IBS, Jan - Dec 2002.

### Expert witness

Life expectancy in cerebral palsy, traumatic brain injury, spinal cord injury, personal injury:

UK, Eire, Hong Kong, Australia, Canada, South Africa, over 500 cases. 1995 - 2026

Secretary of State for HSC-v-PPE Medpro, Neutral citation number: [2025] EWHC 2486 (Comm)

Cardiorientis AG and IQVIA, England, Neutral Citation Number: [2022] EWHC 250 (Comm)

Pinacle metal-on-metal hip implants, England, Neutral Citation Number: [2018] EWHC 1208 (QB).

Adverse effects of anti-epileptic drug, Vigabatrin, England. 2007 - 2008.

Adverse effects of rofecoxib (Vioxx), Scotland. 2012 - 2013.

General Medical Council, Fitness to Practice Panel, 2008.

### Editorial, advisory

National grant application review for most UK research councils, the Royal Society, the Wellcome Trust, the Leverhulme Trust, and NIHR TCC Panel.

International grant application review for Health Research Board, Eire; Netherlands Organisation for Scientific Research; National Research Foundation, South Africa

Member of Editorial Board, J. Pediatric Rehabilitation Medicine, 2022 -

Newton Gateway to Mathematics Programme Committee, 2014 -

Member of Core Methodology Panel, National Institute Health Research, 2011 - 2015

Member of National Institute Health Research TCC Panel, 2011 - 2014

Committee of Mathematical Sciences Bologna working group, 2006 - 2009.

Medical Research Council (MRC) CPBAR working group on experimental design, 2003 - 2010.

MRC Writing group: Guidelines on ethics of cluster randomised designs, 2001 - 2002.

Associate editor, J Royal Statistical Society (C) 'Applied Statistics', 1995 - 1998

Associate & deputy editor, Health & Social Care in the Community, 1991 - 2000.

## Research

Transparent decision-making is widely appreciated. My methodological research develops models to answer questions raised by doctors, scientists and patients. The impact of selected data and missing information in longitudinal models, survival analysis and meta-analysis, are my principal theoretical interests. I have extensive interdisciplinary research networks, both nationally and internationally, and a wide understanding of the range of problems addressed in medical and other research.

My collaborative research has had wide-ranging international impact in health care [137] and society through expert witness reports [134]. In 2024 I ran four interdisciplinary workshops on statistics and the law, and I have contributed to training and guides for lawyers [135, 136].

**Survival analysis**, the investigation of factors which affect time to events of interest, such as cure, is a major area of medical research, and is also used in economics and engineering. I have researched the connections between, and merits of, two classes of survival models: proportional hazards and accelerated life models. The former has transformed the analysis of medical data in the last two decades. Engineering and economics commonly use accelerated life models to study patterns of failure times. We proved that, in general, inferences can differ substantially with the model class [7, 10, 13], so that accelerated life models must be considered in medical statistics, particular with variable quality data. Work on data quality issues such as measurement error, missing data and combining data from different sources and times [13, 15, 18, 19, 21, 22, 23, 24] continues.

My applications of survival analysis in *cerebral palsy* [49, 58, 59, 60, 69, 71, 77, 78, 84] and brain tumours and *epilepsy* [41, 45, 52, 75, 94, 97] have had substantial impact. Our results showing that people with *cerebral palsy* live much longer than previously assumed has transformed health and social service planning. We are one of only two expert teams internationally who are called to give expert evidence on the survival of people with *cerebral palsy*.

**Missing data** occurs in many research studies: for example, people might decline to answer questions or might not be contacted [138, 139]. Collaboration on a trial of ankle sprains has led to models for recovery rates with skew, bounded scores, with missing data. I have collaborated in developing methods, particularly skew-normal distributions to assess the impact of missing data in survival and longitudinal studies. Skew-normal distributions have potential for unifying levels of missingness [18, 22, 29, 28, 21]. Another approach uses Chain Event Graphs, new statistical models, which we have shown provide good understanding of patterns of missing data [25, 26].

**Meta-analysis** aims to provide accurate summaries of the range of research on a topic. I work on both methodological [7, 8, 9, 11, 12, 16, 84, 20] and substantive issues [56, 62, 79, 80, 90, 88] in systematic reviews, particularly in connection with meta-analysis of survival data. I have collaborated in many of the systematic reviews which provide the leading international summaries of treatments for people with *epilepsy* [105, 106, 107, 108, 109, 110, 111]. Clear communication of results is very important, so I investigated the properties and problems of a flawed statistic (number needed to treat) which was being promoted for dissemination of research results [6]. Less technical articles have been disseminated in medical journals [85, 89].

I am interested in the interplay of information, knowledge, truth, **ethics and statistics** [112, 113, 119, 120, 121, 124, 123, 81, 131, 132]. The work was partly supported by NHS grants [114, 117]. The Medical Research Council invited me to take a major role in writing new good practice guidelines for cluster randomized designs [127] and collaborate in evaluating animal research [87]. I have had several international invitations to address ethics and statistics.

**Research grants held**

Source of funds	Title	Start Date	Mths	Total (K £)
Grants as principal investigator:				
MRHA	Life expectancy & cerebral palsy (CP)	1/89	12	£9
NWCRF	Statistical Methods for the Control of Cancer	10/94	36	£63
NHSE	Implications of socio-cultural contexts for ethics of clinical trials	11/95	12	£48
WRI	Measurement error in repeated measurements	1/96	12	£13
NHSE	Life expectancy, North England CP cohort (N&Y)	10/97	12	£2
EPSRC	Measurement error in longitudinal data	10/97	36	£45
MRC	Life expectancy in cerebral palsy: UK collaboration	2/01	36	£229
MRC	Models for selection bias, applied to controlled trials and observational studies of anti-epileptic drugs	7/05	36	£199
NIHR	Exploring the role of Chain Event Graphs in modeling and managing chronic diseases	12/12	6	£28
Royal Society	Wolfson Research Merit Award	1/13	60	£100
<i>Sub-total</i>				<b>£736</b>
Grants as co-investigator:				
MRC	Individual patient data meta-analysis, epilepsy P R Williamson (PI)	5/98	24	£70
DoH, NHS	Methods to identify urinary incontinence M Pearson (PI)	5/94	18	£160
NHSE	Expanding the systematic review paradigm RJ Lilford (PI)	10/97	24	£40
NHSHTA	A randomised control trial of four methods of support in severe ankle sprains, & costs MW Cooke (PI), S Lamb (PI)	9/02	36	£388
NI R&D	Monitoring socio-economic inequalities in pregnancy outcome in Northern Ireland; Helen Dolk (PI)	02/03	36	£151
EPSRC	Statistical questions in meta analysis; JB Copas (PI)	07/04	36	£191
DfT	Systematic review of the probability of future seizures after an initial seizure or other risk creating event C Hawley (PI)	05/04	6	£48
NIHR	Defining priorities, communicating evidence about interventions for epilepsy; AG Marson (PI)	7/08	60	£533
EPSRC	Warwick Centre for Analytical Science; M Smith, (PI)	10/08	60	£3,698
AMS	Newton Advanced Fellowship; F Gumedze, (PI)	10/16	36	£88
<i>Sub-total</i>				<b>£5,367</b>
<b>Total</b>				<b>£6,003</b>

AMS: Academy of Medical Sciences; DoH: Department of Health;  
 EPSRC: Engineering & Physical Sciences Research Council;  
 MRHA: Mersey Regional Health Authority; MRC: Medical Research Council;  
 NHSE National Health Service Executive; NWCRF: North West Cancer Research Fund;  
 N & Y Northern & Yorkshire; WRI: Westlakes Research Institute.

## Teaching

As a statistician, my teaching expertise is highly valued by mathematical specialists as well as a very wide range of subject areas and professions. I have experience of teaching in several countries, and to students of many nations. My teaching ability is recognised nationally and internationally. Feedback on my teaching of statistics from first year to masters courses, and service courses has consistently been very good.

### Statistics and mathematics students

Within mathematics and statistics honours degrees, I have taught at all levels, including courses on statistical inference, generalised linear models, survey sampling, survival analysis, and medical statistics. I use a variety of styles in teaching. I also enable mathematics and statistics students to gain skills in presentation, leadership, team work, time management, literacy and assertiveness, pioneered the use of group projects within mathematics degrees. My collaborative research provides popular projects for fourth year and MSc statistics students.

### Teaching statistics for non-mathematical students

I have developed and delivered lectures and modules for a variety of disciplines in science, engineering and health care. My work as a consulting statistician, a statistical referee and editor, and in multi-disciplinary research has allowed me to adapt core material to particular groups, such as paediatricians, dentists, and nurses, by using examples from recent research.

### Continuing professional development and capacity building

I have contributed to the Royal Statistical Society Continuing professional development programme, and to continuing medical professional development through lecture series and short courses. I have co-organised statistical training for advocates, given several seminars to lawyers, and have written guidelines for refereeing and study design. I was lead director of an international school on biostatistics at the International Centre for Theoretical Physics. I have organised short courses in Africa and Australia. I have taught 17 courses at the African Institute of Mathematical Sciences, in Cameroon, Ghana, South Africa, Tanzania from 2008 to 2025. I co-organised a workshop at AIMS Rwanda on ‘African Data Science Degrees: Design & implementation’.

### Supervising teaching

Academics in the UK are required to follow training in teaching methods as part of their probation. For three years, I was in charge of the specialist Mathematics and Statistics option at the University of Warwick. Staff in physics, computer science and complexity also choose this option over the standard option. I arranged relevant courses, and marked dissertations and portfolios. For six years, I worked with the University of Warwick’s Learning Development Centre in providing training for PhD students in preparation for their giving tutorials and marking undergraduate work. I developed the content of the course to be relevant to mathematics and statistics.

### Research Supervision:

I have supervised seventeen successful PhD research students since 1998.

### External examiner:

*PhD and MPhil theses:* Australia, France, South Africa, Sudan, United Kingdom  
 MSc Statistics, London School of Economics, 2004 - 2008; Oxford University, 2013 - 2017  
 MSc Actuarial Science, City St George’s, University of London, 2024-2027.  
 Undergraduate Statistics, University of Leeds, 2015 - 2018  
 Professions Allied to Medicine research methods course, University of Liverpool, 2000 - 2003.

## Publications

### Methodological articles

- [1] J L Hutton. Non-negative time series models for dry river flow. *J.Appl.Prob*, 27:171–182, 1990.
- [2] J L Hutton and R G Owens. Bayesian sample size calculations and prior beliefs about child sexual abuse. *The Statistician*, 42:399–404, 1993.
- [3] D Ashby, J L Hutton, and M A McGee. Simple Bayesian analyses for case-control studies in cancer epidemiology. *The Statistician*, 42:385–397, 1993.
- [4] D Ashby and J L Hutton. Bayesian epidemiology. In *Bayesian Biostatistics (ed D. Berry and D. Stangl)*, pages 109–138. New York: Marcel Dekker, 1996.
- [5] J L Hutton and P J Solomon. Parameter orthogonality in mixed regression models for survival data. *J.R.Statist.Soc. B*, 59:125–136, 1997.
- [6] J L Hutton. Number needed to treat: properties and problems. *J.R.Statist.Soc. A*, 163:403–419, 2000.
- [7] J L Hutton and P R Williamson. Bias in meta-analysis with variable selection within studies. *Appl. Statist*, 49:359–370, 2000.
- [8] P R Williamson, A G Marson, C Tudur, J L Hutton, and D W Chadwick. Individual patient data meta-analysis of randomised anti-epileptic drug monotherapy trials. *J Eval Clin. Pract.*, 6:207–214, 2000.
- [9] S Hahn, P R Williamson, J L Hutton, P Garner, and V Flynn. Assessing the potential for bias in meta-analysis due to selective reporting of subgroup analyses within studies. *Statist. Med*, 19:3325–3336, 2000.
- [10] J L Hutton and P F Monaghan. Choice of accelerated life and proportional hazards models for survival data: asymptotic results. *Lifetime Data Analysis*, 8:375–393, 2002.
- [11] P R Williamson, H Clough, J L Hutton, A Marson, and D W Chadwick. Statistical issues in the assessment of the evidence for an interaction between factors in epilepsy trials. *Statist. Med*, 21:2613–2622, 2002.
- [12] P R Williamson, C Tudur Smith, J L Hutton, and A G Marson. Aggregate data meta-analysis with time-to-event outcomes. *Statist. Med*, 21:3337–3351, 2002.
- [13] G Kwong and J L Hutton. Choice of parametric models in survival analysis: applications to cerebral palsy and monotherapy for epilepsy. *Appl. Statist*, 52:163–168, 2003.
- [14] P R Williamson, C Gamble, DG Altman, and J L Hutton. Outcome selection bias in meta-analysis. *Stat. Meth. Med. Res*, 14:515–524, 2005.
- [15] B J Cowling, J L Hutton, and J E H Shaw. Joint modelling of event counts and survival times. *Appl. Statist*, 55:31–39, 2006.
- [16] K Hemming, J L Hutton, MJ Maguire, and AG Marson. Open label extension studies and patient selection biases. *J Eval Clin Pract*, 14:141–144, 2008. doi: 10.1111/j.1365-2753.2007.00821.x.

- [17] PK Kimani, N Stallard, and J L Hutton. Dose selection in seamless phase (II/III) clinical trials based on efficacy and safety. *Statist. Med*, 28:917–936, 2009.
- [18] K Hemming and J L Hutton. Bayesian sensitivity models for missing covariates in the analysis of survival data. *J Eval. Clin. Pract.*, 18:238–246, 2012. Epub 2010 Nov 30.
- [19] J Anzures-Cabrera and J L Hutton. Competing risks and left truncation in A-bomb long-term survivors. *J App. Stat.*, 37:821–831, 2010. Gopal Kanji prize for Best Paper 2010.
- [20] K Hemming, J L Hutton, MG Maguire, and AG Marson. Meta-regression with partial information on summary trial or patient characteristics. *Statist. Med*, 29:1312–1324, 2010. DOI: 10.1002/sim.3848.
- [21] J L Hutton and E Stanghellini. Modelling bounded health scores with censored skew-normal distributions. *Statist. Med*, 31:368–376, 2011. DOI: 10.1002/sim.4104.
- [22] M Akacha and J L Hutton. Modelling the rate of change in a longitudinal study with missing data, adjusting for contact attempts. *Statist. Med*, 30:1072–1089, 2011. DOI: 10.1002/sim.4165.
- [23] PK Kimani, E Glimm, W Maurer, J L Hutton, and N Stallard. Practical guidelines for adaptive seamless phase ii/iii clinical trials that use Bayesian methods. *Statist. Med*, 2012. doi: 10.1002/sim.5326.
- [24] JK Rogers and J L Hutton. Joint modelling of pre-randomisation event counts and multiple postrandomisation survival times with cure rates: application to data for early epilepsy and single seizures. *J Appl. Stats*, 3:546–562, 2012.
- [25] LM Barclay, J L Hutton, and JQ Smith. Refining a Bayesian Network using a Chain Event Graph. *Int. J. Approx. Reason.*, 54:1300–1309, 2013.
- [26] LM Barclay, J L Hutton, and JQ Smith. Chain event graphs for informed missingness. *Bayesian Analysis*, 9:53–76, 2014.
- [27] EO Ogundimu and JL Hutton. On the extended two-parameter generalized skew-normal distribution. *Stat. Prob. Letters*, 100:142–148, 2015.
- [28] EO Ogundimu and J L Hutton. A unified approach to multilevel sample selection models. *Com. Stat. Theory Methods*, 45:2592–2611, 2016.
- [29] EO Ogundimu and J L Hutton. A sample selection model with skew-normal distribution. *SJS*, 43:172–190, 2016. Epub 2015.7.1.
- [30] FJ Rubio, EO Ogundimu, and J L Hutton. On modelling asymmetric data using two-piece sinh-arcsinh distributions. *Brazilian J. Prob.Stats.*, 30:485–501, 2016.
- [31] LJ Bonnett, JL Hutton, and AG Marson. Modelling seizure rates rather than time to an event within clinical trials of antiepileptic drugs. *BMC Medical Research Methodology*, 20:1–14, 2020.
- [32] LJ Bonnett, T Spain, A Hunt, JL Hutton, V Watson, AG Marson, and J Blakey. Guide to evaluating performance of prediction models for recurrent clinical events. *Diagnostic and Prognostic Research*, 9(1):1–6, 2025.

**Substantive articles**

- [33] M N Hartley, D J Tufnell, J L Hutton, M Palmer, and M S Al Jafari. Fine needle aspiration cytology: an in-vitro study of cell yield. *Br. J. Surg.*, 75:380–381, 1988.
- [34] J M Escala, M A Keating, G Boyd, A Pierce, J L Hutton, and J Lister. Development of elastic fibres in the upper urinary tract. *J. Urol.*, 141:969–973, 1989.
- [35] B T Parys, B T Haylen, J L Hutton, and K F Parsons. The effects of simple hysterectomy on vesicourethral function. *Br. J. Urol.*, 64:594–599, 1989.
- [36] N Modi and J L Hutton. The influence of postnatal respiratory adaptation on sodium handling in preterm neonates. *Early Human Dev.*, 21:11–20, 1990.
- [37] N Modi and J L Hutton. Urinary creatinine excretion and estimation of muscle mass in infants 25–34 weeks gestation. *Acta Scand. Paed.*, 79:1156–1162, 1990.
- [38] R Carr, J L Hutton, J Jenkins, J A Lucas, and N W Amphlett. Transfusion of ABO mismatched platelets leads to early platelet refractoriness. *Br. J. of Haem.*, 75:408–413, 1990.
- [39] B T Parys, B T Haylen, J L Hutton, and K F Parsons. Urodynamic evaluation of lower urinary tract function in relation to total hysterectomy. *Aust & New Zealand J of Obs and Gyne*, 30:161–165, 1990.
- [40] B T Parys, B T Haylen, J L Hutton, and K F Parsons. Neurophysiological reflex arc abnormality after total hysterectomy. *Int Urogynae J*, 1:200–205, 1990.
- [41] D F Smith, J L Hutton, D Sandemann, P M Foy, M D M Shaw, I R Williams, and D W Chadwick. The prognosis of primary intracerebral tumours presenting with epilepsy: the outcome of medical and surgical management. *J Neurology, Neurosurgery & Psych*, 54:915–920, 1991.
- [42] K Moore, D Richmond, J Sutherst, A Imrie, and J L Hutton. Crouching over the toilet seat: Prevalence amongst British women and and effect upon micturation. *Brit J Obs & Gyne*, 98:569–572, 1991.
- [43] B T Parys and J L Hutton. Fifteen-year experience of carcinoma of the scrotum. *Br.J. Urol.*, 68:414–417, 1991.
- [44] J K M Duguid, R Carr, J A Jenkins, J L Hutton, G F Lucas, and J M Davies. Clinical evaluation of the effects of storage time irradiation on transfused platelets. *Vox Sang.*, 60:151–154, 1991.
- [45] J L Hutton, D F Smith, D Sandemann, P M Foy, M D M Shaw, I R Williams, and D W Chadwick. Development of a prognostic index for use in a trial of medical and surgical management of primary intracelluar tumours. *J Neurology, Neurosurgery & Psych*, 55:271–274, 1992.
- [46] S A Hinchcliffe, P L Sargent, Y F Chan, D Vanvelzen, C V Howard, and J L Hutton. Medullary ray glomerular ray counting as a method of assessment of human nephrogenesis. *Path Res Pract*, 188:775–782, 1992.
- [47] G Hackett, P Bundred, J L Hutton, J O’Brien, and I M Stanley. Management of joint and soft tissue injuries in three general practices. *Brit J Gen Prac*, 43:61–64, 1993.
- [48] J L Hutton, R G Owens, L Horne, and D V Glasgow. Professionals’ beliefs about child sexual abuse. *Health & Social Care in the Community*, 1:219–226, 1993.

- [49] J L Hutton, T Cooke, and P O D Pharoah. Life expectancy in children with cerebral palsy. *Brit. Med. J*, 309:431–435, 1994.
- [50] B H Roe, J M Griffiths, M Kenrick, N A Cullum, and J L Hutton. Nursing treatment of patients with chronic leg ulcers in the community. *J of Clin Nursing*, 3:159–168, 1994.
- [51] M J Diver, J G Hughes, J L Hutton, C R West, and L J Hipkin. The long-term stability in whole blood of 14 commonly requested hormone analytes. *Ann of Clin Biochem*, 31:561–565, 1994.
- [52] J L Hutton, D F Smith, and D W Chadwick. Prospective evaluation of a prognostic index for intrinsic supratentorial tumours. *J of Neurology, Neurosurgery and Psych*, 59:92–94, 1995.
- [53] CJ Green, IT Campbell, P McClelland, J L Hutton, MM Ahmed, TR Helliwell, RG Wilkes, AA Gilbertson, and JM Bone. Energy and nitrogen balance and changes in midupper-arm circumference with multiple organ failure. *Nutrition*, 11:739–746, 1995.
- [54] A M Weindling, P Hallam, J Gregg, H Klenka, L Rosenbloom, and J L Hutton. A randomized controlled trial of early physiotherapy for high-risk infants. *Acta Paediatrica*, 85:1107–1111, 1996.
- [55] J L Hutton, P O D Pharoah, R W I Cooke, and R C Stevenson. The differential effects of prematurity and dysmaturity on cognitive and motor development. *Arch. Dis. Ch*, 76:F75–F81, 1997.
- [56] A G Marson, Z A Kadir, J L Hutton, and D W Chadwick. The new anti-epileptic drugs: A systematic review of their efficacy and tolerability. *Epilepsia*, 38:859–880, 1997.
- [57] P L Cornelissen, P C Hansen, J L Hutton, V Evangelinou, and J F Stein. Magnocellular visual function and children’s single word reading. *Vision Research*, 38:471–482, 1998.
- [58] G Maudsley, J L Hutton, and P O D Pharoah. Cause of death in cerebral palsy: a descriptive study. *Arch. Dis. Ch*, 81:390–394, 1999.
- [59] J L Hutton, A F Colver, and P C Mackie. Effect of severity of disability on survival in north east England cerebral palsy cohort. *Arch. Dis. Ch*, 83:468–474, 2000.
- [60] J L Hutton and P O D Pharoah. Effects of cognitive, sensory and motor impairment on the survival of people with cerebral palsy. *Arch. Dis. Ch*, 86:84–89, 2002.
- [61] J L Marsh, J L Hutton, and K Binks. Removal of radiation dose response effects: an example of over-matching. *Brit. Med. J*, 325:327–330, 2002.
- [62] A G Marson, P R Williamson, H Clough, J L Hutton, and D W Chadwick. Carbamazepin and valproate monotherapy for epilepsy: a meta-analysis. *Epilepsia*, 43:505–513, 2002.
- [63] AK Sharma, M Callaghan, R Rustom, J L Hutton, A Hammad, and RA Sells. Cyclosporine nephrotoxicity: Is it determined by donors predisposition? *Transplantation*, 2002. Short communication.
- [64] H O Dickinson, J L Hutton, LH Greaves, T J B Dummer, and L Parker. Stillbirth risk in rural and urban areas. *Paed. & Perin. Epid*, 16:249–254, 2002.
- [65] L S Pearson and J L Hutton. A controlled trial to compare the ability of foam swabs and toothbrushes to remove dental plaque. *J. Adv. Nurse.*, 39:480–489, 2002.

- [66] SN Jarvis, SV Glinianaia, MG Torrioli, MJ Platt, M Miceli, PS Jouk, A Johnson, J L Hutton, G Hagberg, H Dolk, J Chalmers, and K Hemming. Cerebral palsy and intrauterine growth in single births: a European collaborative study. *Lancet*, 362:1106–1111, 2003.
- [67] J E Gach, A M Madrigal, J L Hutton, and R Charles-Holmes. Retrospective analysis of the occurrence of internal malignancy in patients treated with PUVA between 1986-1999 in South Warwickshire. *Clin and Exp Derm*, 29:154–155, 2003.
- [68] M Topp, L D Huusom, J Langhoff-Roos, C Delhumeau, J L Hutton, and H Dolk. Multiple birth and cerebral palsy in Europe: a multicenter study. *Acta Obstet Gynecol Scand*, 83:548–553, 2004.
- [69] K Hemming, J L Hutton, A Colver, and MJ Platt. Regional variation in survival of people with cerebral palsy in the United Kingdom. *Pediatrics*, 116:1383–1390, 2005.
- [70] K Hemming, J L Hutton, SV Glinianaia, SN Jarvis, and MJ Platt. Differences between European birth weight standards: impact on small for gestational age classification. *Dev. Med. & Child. Neur.*, 48:906–912, 2006.
- [71] K Hemming, J L Hutton, and POD Pharoah. Long term survival for a cohort of adults with cerebral palsy. *Dev. Med. & Child. Neur.*, 48:90–95, 2006.
- [72] P O D Pharoah and J L Hutton. Life expectancy in severe cerebral palsy. *Arch. Dis. Ch*, 91:254–258, 2006. doi:0.1136/adc.2005.075002.
- [73] RA Nakash, J L Hutton, EC Jorstad, and SE Lamb. Maximising response to postal questionnaires - a systematic review of randomised trials in health research. *BMC Med Res Meth.*, 6:5, 2006.
- [74] J L Hutton. Cerebral palsy life expectancy. *Clin. Perinatol*, 33:545–555, 2006.
- [75] BJ Cowling, JEH Shaw, J L Hutton, and AG Marson. New statistical method for analysing time to first seizure: example using data comparing carbamazepine and valproate monotherapy. *Epilepsia*, 48:1173–1178, 2007.
- [76] RA Nakash, J L Hutton, SE Lamb, S Gates, and J Fisher. Response and non-response to postal questionnaire follow-up in a clinical trial - a qualitative study of the patient's perspective. *BMC Med Res Meth.*, 14:226–235, 2008. doi:/10.1111/j.1365-2753.2007.00838.x.
- [77] K Hemming, J L Hutton, S Bonellie, and J Kurinczuk. Intrauterine growth and survival in cerebral palsy. *Arch Dis Child Fetal Neonatal Ed*, 93:F121–F126, 2008. doi:10.1136/adc.2007.121129.
- [78] K Hemming, A Colver, J L Hutton, POD Pharoah, and J Kurinczuk. The influence of gestational age on severity of disability in bilateral and unilateral spastic cerebral palsy. *J. Peds*, 153:203–208.e4, 2008.
- [79] M Maguire, K Hemming, AG Marson, and J L Hutton. Reporting and analysis of open-label extension studies of anti-epileptic drugs. *Epilepsy Research*, 81:24–29, 2008.
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