

Evangelos (Evan) Kontopantelis, PhD

Year of birth:	1976
Job title:	Professor in Data Science and Health Services Research
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Nationality:	UK and Greek (EU)

I am a Biostatistician and Health Services Researcher contributing across numerous departments and centres within the University of Manchester (UoM): Centres for Health Informatics, Primary Care, Health Economics, Biostatistics, Brain Behaviour and Mental Health, and Pharmacoepidemiology and Drug Safety. My work is internationally acknowledged and has led to collaborations with numerous researchers around the world. I would like to think that my direct involvement across various research centres within the UoM practically facilitates multidisciplinary collaboration, and such collaboration networks can be argued to drive the future of health sciences research.

My background and skills in computational statistics, along with my expertise in the organisation of health services has made me an ideal fit for structures that aim to harness and utilise the information revolution that is currently occurring in the NHS and many other health care systems around the world. In the company of excellent colleagues I have led but also supported world-leading research, evaluating the performance of certain aspects of health care and analysing how to make cost-effective improvements.

My expertise in both statistics and health services research allows me to lead a wide range of research projects, methodological or applied. Thus, I can apply state of the art methods in a very challenging data-intensive context to answer important clinical questions but also develop from scratch the methodological tools need for such analyses, if needed. I have led or collaborated on numerous applied research projects that have used Electronic Health Records since 2008 (e.g. in suicide and self-harm, severe mental illness, medication safety, health service organisation or cost-effectiveness). Thus, I have developed a deep understanding of these unique databases and I am considered an international expert in analysing them. I have been repeatedly invited to collaborate on international projects and to present my research, while in 2016 I was appointed as member of the Medicines and Healthcare products Regulatory Agency (MHRA) Independent Scientific Advisory Committee (ISAC). My expertise in these areas of research also allows me to support and develop the next generation of computational statisticians / health informaticians within the UoM. Another area of interest is meta-analysis (the synthesis of published evidence), and I have also developed an international reputation in this field through various highly cited publications and software.

The applied research colleagues and myself are conducting is often published in high impact factor journals, is picked up by the media and leads to changes in the organisation of health services and eventually improves the experiences of patients and/or leads to improvements in efficiency. In Sep 2018 I had been cited 5800 times in 135 peer reviewed publications (27 as leading author and 13 as senior author). Twenty-three of these publications were in high impact

factor journals (IF>10): 12 in the BMJ (IF=16.3), 3 in the NEJM (IF=55.9), 2 in the Lancet (IF=45.2), 1 in JAMA Psychiatry (IF=14.4), 1 in JAMA Internal Medicine (IF=14.0), 1 in the European Heart Journal (IF=15.2), 1 in Circulation (IF=14.4), 1 in the Annals of Neurology (IF=10.0), 1 in the Archives of General Psychiatry (IF=14.5). Despite the fact I am funded to conduct applied research, I have driven the publication of numerous methodological papers (as first or last author), focusing on primary care databases and meta-analysis.

I am also a firm believer in the practical application of advanced statistical methods and I strive to support my methodological contributions with user-friendly software to be used by researchers and students. I have coded advanced statistical methods (existing or ones I developed) in complete easy to use packages for “out-of-the-box” use by novice users of statistical software.

I have successfully led or collaborated on numerous funded projects (funding total £13,702,512). In recognition of my unique profile and background, which brings together computational statistics and health services research, the NIHR School for Primary Care Research (SPCR) offered me a 3-year fellowship in 2010. My research output and impact during and after the fellowship has been repeatedly highlighted by the organisation as exceptional by Professor Richard Hobbs, head of the Nuffield Department of Primary Care Health Services, University of Oxford, and head of the NIHR SPCR. Thus, I am being used as an example of the success of the fellowship scheme to motivate new fellows to whom I also provide training.

Knowledge Areas

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| <ul style="list-style-type: none"> • Biostatistics • Simulations • Meta-analysis • Bootstrapping methods • Structural Equation Modelling • Randomised Controlled Trials • Data mining techniques • Applied mathematics | <ul style="list-style-type: none"> • Pattern recognition • Signal processing • Time series analysis • Interrupted time series • Artificial Neural networks • Feature Extraction techniques • Algorithms (theory, applications) • Large databases in health care |
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Information Technology Skills

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| <ul style="list-style-type: none"> • Expert knowledge of Stata and its scripting language • Very good knowledge of SPSS, SAS, R and other statistical software (including their scripting languages) • Expert in Visual Basic for Applications (VBA) with MS Excel and Access • Database management with Stata and MS Access (VBA and SQL) • Excellent knowledge of Structural Equation modeling software (AMOS, LISREL, EQS, Stata) | <ul style="list-style-type: none"> • Advanced knowledge of MATLAB • Various other programming languages (Visual Basic, C, C++, Java, Pascal, Basic, Python) • Expert in Microsoft Office and LaTeX • Linux Server administration (CentOS 7) • Good knowledge of web design, and diagramming software (e.g. MS Visio) • Reference Manager & EndNote • Image and Video processing • Creating/implementing online surveys |
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Other Skills

- Staff Training
- Public speaking
- Tutoring
- Academic writing
- Composition of help guides / course material on mathematical or programming issues

Education

2001-2004	Ph.D. in Computer Engineering, National Technical University of Athens, Department of Electrical & Computer Engineering, Information Technology Section. Thesis: An application of statistics, artificial neural networks and dynamic measures in psychiatric diagnosis.	
1999-2001	M.Sc. in Computer Engineering, N.T.U.A., Department of Electrical & Computer Engineering, Information Technology Section. The course included 4 undergraduate and 6 post-graduate modules (including Artificial Neural Networks, Algorithms & Complexity, Game Theory and Data Structures), as part of the PhD. The overall grade was 9/10, 'excellent'.	
1994-1998	Degree in Statistical Science, University of Piraeus (grade: 7.4/10, in top 10%). Focused on Biostatistical courses, Multivariate Analysis and Stochastic Processes.	
1990-1994	1 st Nikea Lyceum (grade: 18.5/20). Admitted to almost any Greek University after achieving an overall grade of 17.2/20 in national entry examinations.	

Citations and indices (Google scholar 11/09/2018)

<i>All</i>	<i>Since 2013</i>
• Citations: 5800	• Citations: 4206
• h-index: 33	• h-index: 33
• i10-index: 80	• i10-index: 79

Professional Experience

From - To	Employer	Title
6/2016–present	Centre for Health Informatics, University of Manchester	Reader in biostatistics and health services research (Full time)
10/2012–6/2016	Centre for Health Informatics, University of Manchester	Senior fellow in biostatistics and health services research (Full time)
08/2005–10/2012	Centre for Primary Care Research, University of Manchester	Research associate/fellow in biostatistics (Full time)
07/2003 – 02/2005	Hellenic Army, Research & Informatics Corps	Reserve Officer of the Hellenic Army (Full time, compulsory military service)
09/1999 – 05/2003	Eginitio Hospital of Mental Illnesses	Scientific Associate (Part time)

Professional Experience

From - To	Employer	Title
09/2002 – 05/2003	Computermania computer school	MS Office and Pascal Instructor (Part time)
08/1998 – 06/2005	Filomatheia preparatory school	Instructor in mathematics & algorithms (Part time)

Research funding (total=£13,702,512)

Role	Cost (£)	Length (months)	Start	Details
Principal- investigator	695,810	36	Jun 2018	Health Foundation funded project: “Quantifying GP retention in primary care, its variability and association with outcomes”
Co- investigator	975,574	21	Oct 2018	NHS Test Beds programme: “The GM Diabetes MyWay project, implementing combinatorial solutions to clinical/system-wide challenges”
Co- investigator	155,173	18	Jun 2018	NIHR School for Primary Care Research funded project: “Quantifying the Risk of Type 2 Diabetes Across the UK”
Co- investigator	208,631	18	Jun 2018	NIHR School for Primary Care Research funded project: “Investigating burnout in general practitioners and indicators of suboptimal patient care using the Clinical Practice Research Datalink”
Co- investigator	157,131	12	Jun 2018	NIHR School for Primary Care Research funded project: “Evaluation of the new ePACT2 national polypharmacy prescribing indicators”
Co- investigator	962,077	60	Jan 2018	Wellcome Investigator award in Humanities & Social Science: “Re-engineering Health Policy Research for Fairer Decisions and Better Health”
Co-principal investigator	92,417	6	Nov 2017	NHS England commissioned work: “Impact of removing pay-for- performance incentives from English Primary Care”
Co- investigator, lead for largest work- package	1,929,622	48	Sep 2017	NIHR Health Services and Delivery Research Programme: “Evaluating the NHS Diabetes Prevention Programme (NHS DPP): the DIPLOMA research programme (Diabetes Prevention – Long term Multimethod Assessment)”
Principal investigator	375,620	36	Mar 2017	NIHR School for Primary Care Research Project: “Quantifying

Research funding (total=£13,702,512)

				severity of chronic conditions in English Primary Care using the Clinical Practice Research Datalink".
Co-investigator	249,983	42	Jan 2017	North Staffordshire Medical Institute grant award: "Major bleeding complications following acute myocardial infarction, site, frequency and impact; insight from a national and primary care perspective".
Co-investigator	516,997	24	Sep 2016	HS&DR Project 14/156/16: "Enhancing the credibility, usefulness and relevance of patient experience data in services for people with long-term physical and mental health conditions using digital data capture and improved analysis of narrative data".
Co-principal investigator	122,661	18	Mar 2016	NIHR School for Primary Care Research Project: "Characterising the primary care population with frailty to better stratify and target healthcare interventions".
Co-investigator	47,923	12	Jan 2016	Clinical pharmacy research grant award (UKCPA-PRUK): "Evaluation of pharmacy TECHnician supported MEDication administration rounds (TECHMED) on reducing omitted doses: a randomised controlled trial and process evaluation in a university teaching hospital".
Co-investigator	561,213	36	Jan 2016	NIHR post-doctoral fellowship of Dr Manish Pareek: "Impact, acceptability and cost-effectiveness of identifying infectious diseases amongst migrants in primary care".
Co-investigator	218,495	48	Jan 2015	Diabetes UK grant: "Relationship of prescribing to change in cardiovascular risk in patients with diabetes: results of longitudinal within-cohort analyses of population-based data".
Co-investigator	141,486	24	May 2014	National Awareness and Early Diagnosis Initiative (NAEDI) grant: "Development of a risk prediction tool for early cancer detection in patients with type-2 diabetes".
Principal investigator	174,761	18	Jan 2014	NIHR School for Primary Care Research grant "An analytical framework for increasing the

Research funding (total=£13,702,512)

				efficiency and validity of research using primary care databases".
Co-investigator	92,074	12	Jan 2013	National Institute for Health Research (NIHR) grant to investigate the effectiveness of collaborative care in patients with depression and co-morbid physical disease using meta-analysis and meta-regression
Co-investigator	203,513	18	Oct 2013	Policy Research Commissioning (round 5) grant to investigate self-harm in primary care patients using the Clinical Practice Research Datalink (CPRD) database
Principal investigator	96,839	18	July 2012	National Institute for Health Research (NIHR) grant to investigate the effect of financial incentives in the quality of care provided to patients with severe mental illness
Co-investigator	98,794	18	July 2012	National Institute for Health Research (NIHR) grant to investigate the validity of primary care databases
Principal investigator	62,043	18	July 2012	National Institute for Health Research (NIHR) grant to investigate diabetes care, exception reporting and indicator withdrawal under the Quality and Outcomes Framework (QOF)
Co-investigator (PI for Manchester)	4,028,700 (203,824)	66	Jan 2012	National Institute for Health Research (NIHR) grant to investigate cancer diagnosis decision rules
Co-investigator	341,264	27	Feb 2012	National Institute for Health Research (NIHR): "From evidence to practice: addressing the translation gap for complex interventions in primary care".
Co-investigator	122,480	24	Jan 2012	National Awareness and Early Diagnosis Initiative (NAEDI): "Cancer screening utilisation among patients with type 2 diabetes".
Co-investigator	70,515	9	Jan 2011	Department of Health funded study to investigate the introduction of the English directly enhanced service for learning disability
Co-investigator	30,000	24	Dec 2011	Medical Research Council (MRC) protocol application to investigate the effects of bariatric surgery using General Practice Research Database (GPRD) data

Research funding (total=£13,702,512)

Co-investigator	46,000	12	Jan 2009	National Institute for Health Research (NIHR) grant, aiming to investigate the impact of the Quality and Outcome Framework on the management of depression
Co-investigator	1,000,000	48	May 2009	Tender for the Supply of Quality and Outcomes Framework Indicator Services, with the National Institute for Health and Clinical Excellence (NICE). A four year project, providing support in the development of new indicators for the Quality and Outcomes Framework (QOF)
Co-investigator	NA	54	Aug 2005	Projects under the National Primary Care Research and Development Centre (NPCRDC) core grant

Personal funding and consultancy work

- NIHR (National Institute for Health Research) School of Primary Care Research Training Fellowship, 2010-2013. The fellowship, which covered over 90% of my salary, gave me the opportunity to freely expand my horizons in any aspect of health research and to actively seek external collaborations.
- Consultant for the MHRA Independent Scientific Advisory Committee (ISAC), which evaluates proposals to use the Clinical Practice Research Datalink (CPRD).
- Statistical editor for PLOS ONE (2015 – ongoing)
- Statistical consultant for the University Hospital of Erlangen (2012 – ongoing).
- Statistical consultant for the Radboud University Nijmegen (2007 – ongoing).
- Statistical consultant for the University of Amsterdam (2012 – 2015).
- Statistical consultant for Which magazine, 2012.
- Statistical consultant for the CADET clinical trial, University of Exeter, 2012.
- Statistical consultant for Quality and Outcomes Framework related projects, University of Birmingham, 2011-2012.
- Statistical consultant for the University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School, 2009.
- National Technical University of Athens, partial scholarship, 1999-2004.

Methodological Journal Papers

1. Williams R, Brown B, Kontopantelis E, van Staa T, Peek N. Term sets: A transparent and reproducible representation of clinical code sets. *Plos One* 2019;14:e0212291.
2. Ryan AM, Kontopantelis E, Linden A, Burgess JF, Jr. Now trending: Coping with non-parallel trends in difference-in-differences analysis. *Stat Methods Med Res* 2018;962280218814570.
3. Langan D, Higgins JPT, Jackson D, Bowden J, Veroniki AA, Kontopantelis E, . . . Simmonds M. A comparison of heterogeneity variance estimators in simulated random-effects meta-analyses. *Res Synth Methods* 2018.
4. Hickey GL, Kontopantelis E, Takkenberg JJM, Beyersdorf F. Statistical primer: checking model assumptions with regression diagnostics. *Interact Cardiovasc Thorac Surg* 2018.
5. Kontopantelis E. A comparison of one-stage vs two-stage individual patient data meta-analysis methods: A simulation study. *Res Synth Methods* 2018.
6. Kontopantelis E, Sperrin M, Mamas MA, Buchan IE. Investigating heterogeneity of effects and associations using interaction terms. *J Clin Epidemiol* 2018;93:79-83.

7. Springate DA, Parisi R, Olier I, Reeves D, Kontopantelis E. rEHR: An R package for manipulating and analysing Electronic Health Record data. *Plos One* 2017;12:e0171784.
8. Kontopantelis E, White IR, Sperrin M, Buchan I. Outcome-sensitive multiple imputation: a simulation study. *Bmc Med Res Methodol* 2017;17.
9. Kontopantelis E, Parisi R, Springate DA, Reeves D. Longitudinal multiple imputation approaches for body mass index or other variables with very low individual-level variability: the mibmi command in Stata. *BMC Res Notes* 2017;10:41.
10. Kontopantelis E, Springate D, Parisi R, Reeves D. Simulation-based power calculations for mixed effects modelling: ipdpower in Stata. *JSS* 2016;1380:22.
11. Olier I, Springate DA, Ashcroft DM, Doran T, Reeves D, Planner C, . . . Kontopantelis E. Modelling Conditions and Health Care Processes in Electronic Health Records: An Application to Severe Mental Illness with the Clinical Practice Research Datalink. *Plos One* 2016;11:e0146715.
12. Stevens S, Valderas JM, Doran T, Perera R, Kontopantelis E. Analysing indicators of performance, satisfaction, or safety using empirical logit transformation. *BMJ* 2016;352.
13. Kontopantelis E, Doran T, Springate DA, Buchan I, Reeves D. Regression based quasi-experimental approach when randomisation is not an option: interrupted time series analysis. *BMJ* 2015;350:h2750.
14. Kicinski M, Springate DA, Kontopantelis E. Publication bias in meta-analyses from the Cochrane Database of Systematic Reviews. *Stat Med* 2015.
15. Springate DA, Kontopantelis E, Ashcroft DM, Olier I, Parisi R, Chamapiwa E, Reeves D. ClinicalCodes: An Online Clinical Codes Repository to Improve the Validity and Reproducibility of Research Using Electronic Medical Records. *Plos One* 2014;9.
16. Kontopantelis E. A Greedy Algorithm for Representative Sampling: repsample in Stata. *J Stat Softw* 2013;55:1-19.
17. Kontopantelis E, Reeves D. A short guide and a forest plot command (ipdforest) for one-stage meta-analysis. *Stata J* 2013;13:574-87.
18. Kontopantelis E, Springate DA, Reeves D. A Re-Analysis of the Cochrane Library Data: The Dangers of Unobserved Heterogeneity in Meta-Analyses. *Plos One* 2013;8.
19. Kontopantelis E, Reeves D. Performance of statistical methods for meta-analysis when true study effects are non-normally distributed: A simulation study. *Stat Methods Med Res* 2012;21:409-26.
20. Kontopantelis E, Reeves D. Performance of statistical methods for meta-analysis when true study effects are non-normally distributed: A comparison between DerSimonian-Laird and restricted maximum likelihood. *Stat Methods Med Res* 2012;21:657-59.
21. Kontopantelis E, Reeves D. metaan: Random-effects meta-analysis. *Stata J* 2010;10:395-407.
22. Kontopantelis E, Reeves D. MetaEasy: A Meta-Analysis Add-In for Microsoft Excel. *J Stat Softw* 2009;30:1-25.
23. Reeves D, Campbell SM, Adams J, Shekelle PG, Kontopantelis E, Roland MO. Combining multiple indicators of clinical quality - An evaluation of different analytic approaches. *Med Care* 2007;45:489-96.

Selected Clinical Journal Papers (first author OR last author OR high IF)

24. Grigoroglou C, Munford L, Webb RT, Kapur N, Ashcroft DM, Kontopantelis E. Prevalence of mental illness in primary care and its association with deprivation and social fragmentation at the small-area level in England. *Psychol Med* 2019;1-10.
25. Grigoroglou C, Munford L, Webb RT, Kapur N, Ashcroft DM, Kontopantelis E. Spatial distribution and temporal trends in social fragmentation in England, 2001-2011: a national study. *Bmj Open* 2019;9:e025881.
26. Kontopantelis E, Buchan I, Webb RT, Ashcroft DM, Mamas MA, Doran T. Disparities in mortality among 25-44-year-olds in England: a longitudinal, population-based study. *Lancet Public Health* 2018;3:e567-e75.
27. Morgan C, Webb RT, Carr MJ, Kontopantelis E, Chew-Graham CA, Kapur N, Ashcroft DM. Self-harm in a primary care cohort of older people: incidence, clinical management, and risk of suicide and other causes of death. *Lancet Psychiatry* 2018;5:905-12.

28. Reeves D, Pye S, Ashcroft DM, Clegg A, Kontopantelis E, Blakeman T, van Marwijk H. The challenge of ageing populations and patient frailty: can primary care adapt? *BMJ (Clinical research ed)* 2018;362:k3349.
29. Grigoroglou C, Munford L, Webb RT, Kapur N, Doran T, Ashcroft DM, Kontopantelis E. Association between a national primary care pay-for-performance scheme and suicide rates in England: spatial cohort study. *Br J Psychiatry* 2018:1-9.
30. Zghebi SS, Rutter MK, Ashcroft DM, Salisbury C, Mallen C, Chew-Graham CA, . . . Kontopantelis E. Using electronic health records to quantify and stratify the severity of type 2 diabetes in primary care in England: rationale and cohort study design. *Bmj Open* 2018;8:e020926.
31. Mamas MA, Tosh J, Hulme W, Hoskins N, Bungey G, Ludman P, . . . Kontopantelis E. Health Economic Analysis of Access Site Practice in England During Changes in Practice: Insights From the British Cardiovascular Interventional Society. *Circ Cardiovasc Qual Outcomes* 2018;11:e004482.
32. Kontopantelis E, Mamas MA, van Marwijk H, Buchan I, Ryan AM, Doran T. Increasing socioeconomic gap between the young and old: temporal trends in health and overall deprivation in England by age, sex, urbanity and ethnicity, 2004-2015. *J Epidemiol Community Health* 2018.
33. Kontopantelis E, Stevens RJ, Helms PJ, Edwards D, Doran T, Ashcroft DM. Spatial distribution of clinical computer systems in primary care in England in 2016 and implications for primary care electronic medical record databases: a cross-sectional population study. *Bmj Open* 2018;8:e020738.
34. Burch P, Doran T, Kontopantelis E. Regional variation and predictors of over-registration in English primary care in 2014: a spatial analysis. *J Epidemiol Community Health* 2018.
35. Kontopantelis E, Mamas MA, van Marwijk H, Ryan AM, Bower P, Guthrie B, Doran T. Chronic morbidity, deprivation and primary medical care spending in England in 2015-16: a cross-sectional spatial analysis. *BMC Med* 2018;16:19.
36. Kontopantelis E, Mamas MA, van Marwijk H, Ryan AM, Buchan IE, Ashcroft DM, Doran T. Geographical epidemiology of health and overall deprivation in England, its changes and persistence from 2004 to 2015: a longitudinal spatial population study. *J Epidemiol Community Health* 2018;72:140-47.
37. Esmail A, Panagioti M, Kontopantelis E. The potential impact of Brexit and immigration policies on the GP workforce in England: a cross-sectional observational study of GP qualification region and the characteristics of the areas and population they served in September 2016. *BMC Med* 2017;15:191.
38. Morgan C, Webb RT, Carr MJ, Kontopantelis E, Green J, Chew-Graham CA, . . . Ashcroft DM. Incidence, clinical management, and mortality risk following self harm among children and adolescents: cohort study in primary care. *BMJ* 2017;359:j4351.
39. Buchan IE, Kontopantelis E, Sperrin M, Chandola T, Doran T. North-South disparities in English mortality 1965-2015: longitudinal population study. *J Epidemiol Commun H* 2017;71:928-36.
40. Panagioti M, Panagopoulou E, Bower P, Lewith G, Kontopantelis E, Chew-Graham C, . . . Esmail A. Controlled Interventions to Reduce Burnout in Physicians A Systematic Review and Meta-analysis. *Jama Intern Med* 2017;177:195-205.
41. Panagioti M, Bower P, Kontopantelis E, Lovell K, Gilbody S, Waheed W, . . . Coventry PA. Association Between Chronic Physical Conditions and the Effectiveness of Collaborative Care for Depression An Individual Participant Data Meta-analysis. *Jama Psychiat* 2016;73:978-89.
42. Ryan AM, Krinsky S, Kontopantelis E, Doran T. Long-term evidence for the effect of pay-for-performance in primary care on mortality in the UK: a population study. *Lancet* 2016;388:268-74.
43. Mamas MA, Nolan J, de Belder MA, Zaman A, Kinnaird T, Curzen N, . . . Kontopantelis E. Changes in Arterial Access Site and Association With Mortality in the United Kingdom: Observations From a National Percutaneous Coronary Intervention Database. *Circulation* 2016.
44. Kontopantelis E, Springate DA, Ashcroft DM, Valderas JM, van der Veer SN, Reeves D, . . . Doran T. Associations between exemption and survival outcomes in the UK's primary care pay-for-performance programme: a retrospective cohort study. *Bmj Qual Saf* 2015.

45. Kontopantelis E, Olier I, Planner C, Reeves D, Ashcroft DM, Gask L, . . . Reilly S. Primary care consultation rates among people with and without severe mental illness: a UK cohort study using the Clinical Practice Research Datalink. *Bmj Open* 2015;5:e008650.
46. Reilly S, Olier I, Planner C, Doran T, Reeves D, Ashcroft DM, . . . Kontopantelis E. Inequalities in physical comorbidity: a longitudinal comparative cohort study of people with severe mental illness in the UK. *Bmj Open* 2015;5:e009010.
47. Stocks SJ, Kontopantelis E, Akbarov A, Rodgers S, Avery AJ, Ashcroft DM. Examining variations in prescribing safety in UK general practice: cross sectional study using the Clinical Practice Research Datalink. *Bmj-Brit Med J* 2015;351.
48. Kwok CS, Kontopantelis E, Myint PK, Zaman A, Berry C, Keavney B, . . . Mamas MA. Stroke following percutaneous coronary intervention: type-specific incidence, outcomes and determinants seen by the British Cardiovascular Intervention Society 2007-12. *Eur Heart J* 2015.
49. Heussinger N, Kontopantelis E, Gburek-Augustat J, Jenke A, Vollrath G, Korinthenberg R, . . . Buttman M. Oligoclonal bands predict multiple sclerosis in children with optic neuritis. *Ann Neurol* 2015;77:1076-82.
50. Kontopantelis E, Springate DA, Ashworth M, Webb RT, Buchan IE, Doran T. Investigating the relationship between quality of primary care and premature mortality in England: a spatial whole-population study. *Bmj-Brit Med J* 2015;350.
51. Kontopantelis E, Springate DA, Reeves D, Ashcroft DM, Rutter MK, Buchan I, Doran T. Glucose, blood pressure and cholesterol levels and their relationships to clinical outcomes in type 2 diabetes: a retrospective cohort study (vol 58, pg 505, 2015). *Diabetologia* 2014;58:1142-42.
52. Doran T, Kontopantelis E, Reeves D, Sutton M, Ryan AM. Setting performance targets in pay for performance programmes: what can we learn from QOF? *Bmj-Brit Med J* 2014;348.
53. Kontopantelis E, Springate D, Reeves D, Ashcroft DM, Valderas JM, Doran T. Withdrawing performance indicators: retrospective analysis of general practice performance under UK Quality and Outcomes Framework. *Bmj-Brit Med J* 2014;348.
54. Kontopantelis E, Buchan I, Reeves D, Checkland K, Doran T. Relationship between quality of care and choice of clinical computing system: retrospective analysis of family practice performance under the UK's quality and outcomes framework. *Bmj Open* 2013;3.
55. Molassiotis A, Stamataki Z, Kontopantelis E. Development and preliminary validation of a risk prediction model for chemotherapy-related nausea and vomiting. *Support Care Cancer* 2013;21:2759-67.
56. Doran T, Kontopantelis E. Pay-for-Performance: Impact on Diabetes. *Curr Diabetes Rep* 2013;13:196-204.
57. Bower P, Kontopantelis E, Sutton A, Kendrick T, Richards DA, Gilbody S, . . . Liu ETH. Influence of initial severity of depression on effectiveness of low intensity interventions: meta-analysis of individual patient data. *Bmj-Brit Med J* 2013;346.
58. Kontopantelis E, Reeves D, Valderas JM, Campbell S, Doran T. Recorded quality of primary care for patients with diabetes in England before and after the introduction of a financial incentive scheme: a longitudinal observational study. *Bmj Qual Saf* 2012;22:53-64.
59. Kontopantelis E, Doran T, Gravelle H, Goudie R, Siciliani L, Sutton M. Family Doctor Responses to Changes in Incentives for Influenza Immunization under the U.K. Quality and Outcomes Framework Pay-for-Performance Scheme. *Health Serv Res* 2011;47:1117-36.
60. Doran T, Kontopantelis E, Fullwood C, Lester H, Valderas JM, Campbell S. Exempting dissenting patients from pay for performance schemes: retrospective analysis of exception reporting in the UK Quality and Outcomes Framework. *Brit Med J* 2012;344.
61. Webb RT, Kontopantelis E, Doran T, Qin P, Creed F, Kapur N. Suicide risk in primary care patients with major physical diseases: a case-control study. *Arch Gen Psychiatry* 2012;69:256-64.
62. Doran T, Kontopantelis E, Valderas JM, Campbell S, Roland M, Salisbury C, Reeves D. Effect of financial incentives on incentivised and non-incentivised clinical activities: longitudinal analysis of data from the UK Quality and Outcomes Framework. *Brit Med J* 2011;342.
63. Kontopantelis E, Roland M, Reeves D. Patient experience of access to primary care: identification of predictors in a national patient survey. *Bmc Fam Pract* 2010;11.

64. Reeves D, Doran T, Valderas JM, Kontopantelis E, Trueman P, Sutton M, . . . Lester H. How to identify when a performance indicator has run its course. *Brit Med J* 2010;340.
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Software

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2. **Kontopantelis E** (2015). PCDSEARCH. An add-on command for the Stata statistical software package, for the analysis of electronic health records. Facilitates searching the very long lookup files accompanying Primary Care Databases (PCDs) to identify relevant clinical codes (usually Read codes in the UK) and product codes.

Software

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6. **Kontopantelis E** (2013). REPSAMPLE. A representative sampling greedy algorithm for the Stata statistical software package. Allows users to select a sample that is as representative as possible, on key characteristics, from a population.
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11. **Kontopantelis E** (2008). SKNOR. Stata module to generate a sample from a normal or skewed (skew-normal) distribution.
12. **Kontopantelis E** (2008). SKBIM. Stata module to generate a sample from a bimodal distribution using normal or skewed (skew-normal) unimodal distributions.

Presentations (invited)

1. **Kontopantelis E**. The North-South mortality divide. *Invited plenary talk, North-West Actuarial Society, Manchester, March 2018.*
2. **Kontopantelis E**. Pitfalls of systematic reviews and meta-analyses. *Invited plenary talk for the 11th World Congress of Controversies in Neurology (CONy), Athens, March 2017.*
3. **Kontopantelis E**. Regression based quasi-experiment when randomisation is not an option: interrupted time-series analysis. *Invited talk for the Royal Statistical Society (RSS) annual conference, Manchester, September 2016.*
4. **Kontopantelis E**. Analysing primary care data: a synergy of health informatics and traditional statistics. *Invited talk for the Royal Statistical Society (RSS) annual conference, Manchester, September 2016.*
5. **Kontopantelis E**. Analysing databases of Electronic Health Records: challenges, promises and limitations. *Invited workshop for the Health - Exploring Complexity: an interdisciplinary systems approach conference (HEC2016), Munich, August 2016.*
6. **Kontopantelis E**. Primary care databases: challenges with analysing Electronic Health Records. *Invited talk for Medical School of the University of Exeter, June 2016.*
7. **Kontopantelis E**. Primary care databases and other resources of routinely collected data: Challenges and examples. *Invited talk for the Evidence Synthesis Network, Manchester, February 2016 and for the External Seminar Series of the University of Manchester's Centre for Biostatistics, March 2016.*
8. **Kontopantelis E** and Booth H. Secondary data analyses. *Invited talk for the NIHR Obesity Call Research Workshop, London, January 2016.*
9. **Kontopantelis E**. Primary Care data signposting: CPRD, THIN and other databases. *Invited talk for the School for Primary Care Research Trainees' meeting, Oxford, October 2015.*

Presentations (invited)

10. **Kontopantelis E**, Springate DA, Ashworth DM, Webb RT, Buchan I and Doran T. Investigating the relationship between quality of primary care and premature mortality in England: a spatial whole-population study. *Invited talk for the Health & Social Care Information Centre public board meeting, January 2015; invited seminar at the University of York, April 2015; orally presented in the Society of Academic Primary Care (SAPC) annual conference, Oxford, July 2015; orally presented in the Health - Exploring Complexity: an interdisciplinary systems approach conference (HEC2016), Munich, August 2016.*
11. **Kontopantelis E**, Springate D and Reeves D. Software and model selection challenges in meta-analysis: model assumptions, heterogeneity and individual patient data. *Invited seminar for researchers and students of the Attikon Hospital of Athens, June 2014, and of the Athens University of Economics and Business, October 2014.*
12. **Kontopantelis E**, and Reeves D. Performing Individual Patient Data meta-analyses. *Invited seminar for researchers and students of the University of Amsterdam, November 2012.*
13. **Kontopantelis E**, Doran T and Reeves D. Effect of Financial Incentives on Incentivised and Non-Incentivised Clinical Activities: Utilising Primary Care Databases to answer clinical, policy and methodological questions. *Plenary talk at the NIHR School of Primary Care Research Showcase, London 2012.*
14. Reeves D and **Kontopantelis E**. The methodological minefield of evaluating the Quality and Outcomes Framework. *Invited talk in quarterly Royal Statistical Society (RSS) Primary Care Study Group meeting, London 2011.*
15. **Kontopantelis E**, Reeves D. Patient Satisfaction with Primary Care: An analysis of the 2007-08 GP patient survey data. *Orally presented in the annual conference of the Society of Academic Primary Care (SAPC), St. Andrews 2009. Selected in the top 3 papers of the conference and was re-presented (invited) in the Royal College of General Practitioners (RCGP) annual conference, Glasgow 2009.*

Presentations (peer reviewed)

16. **Kontopantelis E**. Outcome-sensitive multiple imputation: a simulation study. *Orally presented in the Royal Statistical Society (RSS) annual conference, Manchester, September 2016.*
17. **Kontopantelis E**, and Jill Stocks. Examining variations in prescribing safety in UK general practice: a cross-sectional study using the Clinical Practice Research Datalink. *Orally presented in the Health - Exploring Complexity: an interdisciplinary systems approach conference (HEC2016), Munich, August 2016.*
18. **Kontopantelis E**, Springate DA, Reeves D, Ashcroft DM, Rutter M, Buchan I and Doran T. Glucose, blood pressure and cholesterol levels and their relationships to clinical outcomes in type 2 diabetes: a retrospective cohort study. *Orally presented in the Society of Academic Primary Care (SAPC) annual conference, Oxford 2015.*
19. **Kontopantelis E**, Springate D and Reeves D. A re-analysis of the Cochrane Library data: the dangers of unobserved heterogeneity in meta-analyses. *Orally presented in the annual national conference of the Royal Statistical Society (RSS), Newcastle 2013; in the 35th Annual Conference of the International Society for Clinical Biostatistics (ISCB35), Vienna 2014; and in the Health - Exploring Complexity: an interdisciplinary systems approach conference (HEC2016), Munich, August 2016.*
20. Valderas JM, **Kontopantelis E**, Springate DA, Reeves D, Ashcroft DM, and Doran T. Withdrawing Performance Indicators: Retrospective Analysis of General Practice Performance Under the UKs Quality and Outcomes Framework. *Orally presented in the Society of Academic Primary Care (SAPC) annual conference, Edinburgh 2014.*
21. **Kontopantelis E**, Buchan I, Reeves D, Checkland K and Doran T. The Relationship between Quality of Care and Choice of Clinical Computing System: Retrospective Analysis of Family Practice Performance under the UK Quality and Outcomes Framework. *Orally presented in the Society of Academic Primary Care (SAPC) annual conference, Nottingham 2013 and in the 30th International Conference of the International Society for Quality in Health Care (ISQua), Edinburgh 2013.*
22. **Kontopantelis E**, Doran T, Fullwood C, Lester H, Valderas J and Campbell S. Exempting dissenting patients from pay-for-performance schemes: a retrospective

Presentations (peer reviewed)

- analysis of exception reporting in the UK Quality and Outcomes Framework. *Orally presented in the Society of Academic Primary Care (SAPC) annual conference, Glasgow 2012.*
23. **Kontopantelis E**, Reeves D, Valderas J, Campbell S and Doran T. Quality of primary care for patients with diabetes in England before and after the introduction of a financial incentive scheme: longitudinal observational study. *Poster presented in the Society of Academic Primary Care (SAPC) annual conference, Glasgow 2012.*
 24. Chauhan U, **Kontopantelis E** and Doran T. Are Health Checks for learning disability leading to improved outcomes?: Analysis of General Practice data. *Orally presented in the Society of Academic Primary Care (SAPC) annual conference, Glasgow 2012.*
 25. **Kontopantelis E** and Reeves D. A short guide and a forest plot command (ipdforest) for one-stage meta-analysis. *Orally presented in the annual national conference of the Royal Statistical Society (RSS), Telford 2012.*
 26. Molassiotis A, Stamataki Z and **Kontopantelis E**. Development of a risk prediction model for chemotherapy-related nausea and vomiting. *Orally presented in the Multinational Association of Supportive Care in Cancer (MASCC) International Symposium, Athens 2011.*
 27. **Kontopantelis E**, Goudie R, Gravelle H, Siciliani L and Sutton M. Investigating the effect of provider incentives for influenza immunization: a longitudinal study. *Orally presented in the Society of Academic Primary Care (SAPC) North conference, Kendal 2010.*
 28. **Kontopantelis E**, Roland M and Reeves D. Evidence from the UK GP patient survey: predictors of patient satisfaction and positive experience with access to primary care. *Orally presented in the 27th International Conference of the International Society for Quality in Health Care (ISQua), Paris 2010.*
 29. Reeves D, **Kontopantelis E** and Doran T. Adjusting for different kinds of covariates in a complex multi-level regression analysis: a case study using General Practice Research Database data on patient consultations in primary care. *Orally presented in the annual national conference of the Royal Statistical Society (RSS), Brighton 2010.*
 30. Valderas JM, **Kontopantelis E**, Doran T, Reeves D, Salisbury C, Sutton M, Roland M, Lester H and Campbell S. The impact of multimorbidity on exception reporting in the Quality and Outcomes Framework. *Orally presented in the Society of Academic Primary Care (SAPC) annual conference, Norwich 2010.*
 31. Reeves D, **Kontopantelis E** and Doran T. Are non-incentivized activities neglected by physicians subject to financial incentives? Evidence from the U.K.'s Quality and Outcomes Framework. *Orally presented in the Society of Academic Primary Care (SAPC) annual conference, Norwich 2010.*
 32. **Kontopantelis E**, Doran T, Valderas JM, Campbell S, Roland M, Salisbury C and Reeves D. Investigating the impact of the Quality and Outcomes Framework on the quality of incentivised and non-incentivised aspects of primary care. *Orally presented in the Health Services Research Network Research Group (HSRN) annual conference, Manchester 2010.*
 33. **Kontopantelis E**, Campbell S, Reeves D and Roland M. Impact of the Quality and Outcomes Framework pay-for-performance scheme on quality of English primary care: an interrupted time series analysis. *Orally presented in the North American Primary Care Research Group (NAPCRG) annual conference, Montreal 2009.*
 34. **Kontopantelis E**, Doran T, Reeves D, Valderas JM and Roland M. Investigating the impact of the Quality and Outcomes Framework on the quality of primary care. *Orally presented in the annual national conference of the Royal Statistical Society (RSS), Edinburgh 2009.*
 35. **Kontopantelis E**, Reeves D. A comparison of Random Effects meta-analysis methods when study effects are non-normally distributed. *Orally presented in the annual national conference of the Royal Statistical Society (RSS), Nottingham 2008.*
 36. **Kontopantelis E**, Doran T, Reeves D, Valderas JM, Roland M. Trends in quality of care for diabetes before and after the introduction of the UK pay-for-performance scheme. *Orally presented in the 25th International Conference of the International Society for Quality in Health Care (ISQua), Copenhagen 2008.*

Presentations (peer reviewed)

37. **Kontopantelis E**, Doran T, Campbell S and Reeves D. Clinical quality in English primary care before and after the introduction of the Quality & Outcomes Framework. *Orally presented in the 2nd Annual Research Meeting of the NHS Confederation, Sheffield 2007.*
38. **Kontopantelis E**, Campbell S, Reeves D. Use of the Team Climate Inventory (TCI) questionnaire in General Practice: response rates and reliability. *Orally presented in SSPC, SAPC and RSS Primary Care Epidemiology and Organisation of Care Conference, Edinburgh 2006.*
39. Mouzak A, Agathos P, **Kontopantelis E**, Alevra A, Kouvardas S, Vogiatzakis E, Vourdeli-Giannakoura E. Creative phosphokinase and lactic dehydrogenase serum levels in Greek stroke patients. Relation to clinical outcome. A preliminary report. *Abstract presented in the 9th Congress of European Federation of Neurological Societies, Athens 2005.*
40. Mouzak A, Agathos P, **Kontopantelis E**, Mouzak B, Vourdeli-Giannakoura E. Hyperamylasemia in Greek stroke patients. Is there an association with disease outcome? A preliminary study: P2098. *European Journal of Neurology Supplement. 11 Supplement 2:211, September 2004. Abstract presented in the 8th Congress of European Federation of Neurological Societies, Paris 2004.*

Extensive courses

- International Primary Care Research Leadership Programme: cohort #10; Nuffield Department of Primary Care and Health Sciences, Oxford; Residential meeting, 12-17 July 2015 and 12-15 September 2016.
- Bayesian Analysis, MCMC and WinBUGS; MRC Biostatistics Unit, Cambridge, 6-8 May 2009.
- Randomised Controlled Trials Course: a guide to design, analysis and interpretation and reporting; Oriol College, Oxford; 26-30 March 2007.

Memberships and honours

- Professional member to MHRA Independent Scientific Advisory Committee (ISAC)
- Fellow of the Royal Statistics Society.
- Honorary Research Fellow of the University Hospital of Erlangen, Germany.
- Member of the Cochrane Collaboration Individual Participant Data Meta-analysis Methods Group.
- Member of the Cochrane Collaboration Statistical Methods Group.

Teaching, mentoring and social engagement

- Course leader for the Health Informatics module of the Clinical Bioinformatics MSc.
- External examiner for the University of Oxford's Evidence-based Health Care MSc.
- Contributing to the online Masters in Public Health (MPH) as a tutor since 2008.
- Supervising one to two students per annum on MPH dissertations.
- Marking two to four MPH dissertation, per annum.
- Supervising up to five PhD students, at any time.
- Mentoring several junior and mid-grade quantitative researchers.
- Supporting the Centre for Biostatistics with its "biostatistics clinics", guiding medical students with their fourth year project option.
- Writing or contributing to blogs (e.g. <https://goo.gl/brFDTe>)

Managerial / Contribution to Uni and Department

- Postgraduate Research (PGR) trainer in quantitative methods for the Institute of Population Health, University of Manchester.
- Supervising and mentoring researchers and PhD candidates in the Institute of Population Health, University of Manchester.

Managerial / Contribution to Uni and Department

- Generated software to automate medical student ranking on their academic achievements. The process is transparent, has been communicated to the students and is currently in use by the Faculty (2011).
- Organised the Centre for Primary Care weekly seminars from 01/2010 to 06/2011

Service as a referee/editor

- Consultant-grade reviewer for the NIHR
- Consultant-grade reviewer for the Patient-Centered Outcomes Research Institute
- Consultant-grade reviewer for the Clinical Practice Research Datalink (CPRD) through the independent Scientific Advisory Committee (ISAC)
- Statistical adviser for the BMJ
- Statistical editor for the Cochrane Wounds and Gynaecological, Neuro-oncology and Orphan Cancers Groups
- Statistical editor and reviewer (consultant) for PLOS ONE
- Associate editor for Statistical Methods in Medical Research
- Associate editor for the Journal of the Academy of Nutrition and Dietetics
- Peer reviewer for Journals (alphabetically): Addiction, Advances in Therapy, American Heart Association Statements, American Journal of Preventive Medicine, Annals of Family Medicine, BMC Endocrine Disorders, BMC Family Practice, BMC Health Services Research, BMC Medical Informatics and Decision Making, BMC Medical Research Methodology, BMC Musculoskeletal Disorders, BMC Nursing, BMC Public Health, BMC Research Notes, the BMJ, BMJ Evidence-Based Medicine, BMJ Global Health, BMJ Open, BMJ Quality and Safety, the British Journal of General Practice, the British Journal of Psychiatry, the Canadian Medical Association Journal, the Cochrane Colloquium, Chronic Illness, Contemporary Clinical Trials, Current Medical Research & Opinion, Diabetes Care, Diabetologia, Gene, Emerging Themes in Epidemiology, the European Journal of General Practice, the European Journal of Health Economics, Health Expectations, Health Policy, Health Services Research, Health & Social Care in the Community, Heart, the International Journal for Quality in Health Care, the International Journal of Environmental Research and Public Health, JACC Intervention,, the Journal of Affective Disorders, the Journal of the American Medical Informatics Association, the Journal of Biomedical Informatics, the Journal of Clinical Epidemiology, the Journal of Cardiovascular Diabetology, the Journal of Diabetes and Its Complications, the Journal of Health Services Research & Policy, the Journal of Investigative Dermatology the Journal of Public Health, the Journal of the Royal Statistical Society, the Lancet Public Health, Medical Research Archives, Methods of Information in Medicine, Nephrology Dialysis Transplantation, Neuro-psychopharmacology, Palliative Medicine, Pharmacoepidemiology and Drug Safety, PLOS Medicine, Population Health Metrics, Research Synthesis Methods, the Scandinavian Journal of Primary Health Care, Schizophrenia Bulletin, Scientific Reports, Social Science and Medicine, the Stata Journal, Statistical Methods in Medical Research, Statistics in Medicine, Systematic Reviews.
- Peer reviewer for funders (alphabetically): British Heart Foundation, Cancer Research UK, the Chief Scientist Office (CSO) of Scotland, the CLAHRC (Collaboration for Leadership in Applied Health Research and Care) Wessex, the Dunhill Medical Trust, the Engineering and Physical Sciences Research Council (EPSRC), the Health Research Board of Ireland, the Health Research Council of New Zealand, the King's Health Partners, MQ the Mental Health Research Charity, the MRC biomedical informatics fellowship scheme, the MRC health systems research initiative, the MRC Methodology Research programme, the MRC Skills Development programme, the National Health and Medical Research Council of Australia, the Netherlands Organisation for Scientific Research (NWO, the Dutch Research Council), the Newton Fund, the NIHR Efficacy and Mechanism Evaluation (EME) Programme, the NIHR Fellowship Programme, the NIHR Health Services and Delivery Research (HS&DR), the NIHR Health Technology Assessment (HTA) Programme, the NIHR Journals Library Publications, the NIHR Public Health Research (PHR) Programme, the NIHR Research for Patient Benefit (RfPB) Programme, NHS Greater Glasgow & Clyde.

Languages

- Greek – Native language.
 - English – Excellent.
 - French – Basic oral skills.
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