

Promoting High Quality Research on the College's Assessments - A Summary of Research on the MRCGP

For over 20 years, the RCGP has encouraged the undertaking and publication of research on the assessments towards 'MRCGP'.

Mindful of its responsibilities to the AiTs who undertake the assessments, the need to preserve appropriate confidentiality, and its obligations under the Data Protection Acts, the College is nevertheless keen to encourage MRCGP examiners and others to make use of the wealth of material that it collects, towards better understanding of the educational and assessment processes and their continuing improvement. In the first instance interested individuals should contact the MRCGP Research and Development Lead at exams@rcgp.org.uk in order to obtain appropriate advice.

Dr Mei Ling Denney
MRCGP R+D Lead, 2010 - 2016

Published Research on the MRCGP Examinations

Please note: We only list and include published papers and oral paper and / or poster presentations that are directly concerned with the MRCGP assessments. MRCGP examiners' work can be put on this website, but we do not have the website capacity nor the necessary permissions to provide the actual research articles, or links to other pages. Please contact the individual examiner if you wish to obtain more details of their work, including papers, slides plus abstract of talks, posters etc. Conference workshops have not been included. The list is not meant to be exhaustive and there may be significant omissions – if you are aware of these, please let us know. Please include unpublished research on the MRCGP Examinations such as Masters dissertations.

We are also including a few papers that have not been written by examiners, but concern the MRCGP assessments, and seminal papers which do not necessarily cover the MRCGP assessments but have played a significant role in influencing or developing the exams.

Work is listed under individual authors by leading author, with most recent work listed higher up in date order.

This document will be updated on an annual basis.

Research work post-2008, on 'Old' Examinations and 'New' Assessments for MRCGP

Atkins S, Roberts C, Hawthorne K and Greenhalgh T. Simulated consultations: a sociolinguistic perspective. BMC Medical Education 2016;16:16. Published: 15 January 2016. DOI: 10.1186/s12909-016-0535-2

Bodgener S & Tavabie A. Is there a value to case-based discussion? Education for Primary Care, 2011; 22: 223-228.

Cobb JJ. How to write a CSA Case. InnovAIT, Vol 5, No 9 (Sept 2012), pp. 571-572

Coombe M, Freeman A, Dixon H, Wakeford R. The consulting skills module of the MRCGP examination: an evaluation of candidates' views. Education for Primary Care 2008; 19, 24-31.

Denney ML, Wiener-Ogilvie S. Piloting a Quality Improvement Project in Final Year General Practice Trainees: Setting up and evaluating the processes. Education for Prim Care, 07 Mar 2016. pp. 1-6 DOI: 10.1080/14739879.2016.1144965

Denney ML & Wakeford R. Do role-players affect the outcome of a high-stakes postgraduate OSCE, in terms of candidate sex or ethnicity? Results from an analysis of the 52,702 anonymised case scores from one year of the MRCGP clinical skills assessment, *Education for Primary Care*, 20 Dec 2015. DOI: 10.1080/14739879.2015.1113724
<http://dx.doi.org/10.1080/14739879.2015.1113724>

Denney ML, Freeman Adrian, Wakeford R. MRCGP CSA: Are the examiners biased, favouring their own by sex, ethnicity, and degree source? *BJGP*, November 2013, pp. e718-e725(8). <http://www.ingentaconnect.com/content/rcgp/bjgp/pre-prints/content-BJGP-2013-63-616-e718>

Denney ML, Wakeford R, Hawthorne K et al. Experiences of simulated patients and candidates in the MRCGP Simulated Surgery examination. *Education for Primary Care* 2006; 17; 354-361

Dixon H, Blow C, Milne P, Siriwardena N, Milne H, Elfes C. Quality Assurance of the Applied Knowledge Test (AKT) of the MRCGP examination – an immediate post-test questionnaire evaluation of the candidates' views. *Education for Primary Care* (2015) 26: 223-32.

Dixon H, Blow C, Irish W, Milne P, Siriwardena AN. Evaluation of a postgraduate examination for primary care: perceptions and performance of general practitioner trainers in the multiple choice paper of the Membership Examination of the Royal College of General Practitioners. *Education for Primary Care* 2007: 18; 165-72.

Dixon H, Blow C, Milne P, Siriwardena N. Reliability of non-prettested versus prettested questions in the applied knowledge test (AKT) of the MRCGP: evidence of quality assurance. *Education for Primary Care* (2014) 25: 149–54

Edwards J & Petra H. The effects of external quality management on workplace-based assessment. *Education for Primary Care*, 2013 Feb;24(2):105-10.

Mamelok J. Achieving a consensus on educational objectives and assessments for EGPT in specialty training programmes for licensing in GP. *Education for Primary Care* July 2013 24: 4, pp 258-266.

Mamelok J. Developing assessments for enhanced specialty training programmes for licensing in GP. Editorial, *Education for Primary Care* July 2013 24:4, pp 230-234.

McManus, IC and Wakeford, R. PLAB and UK graduates' performance on MRCP(UK) and MRCGP examinations: data linkage study. *BMJ* 2014; 348 (Published 17 April 2014).
<http://www.bmj.com/content/348/bmj.g2621>

Patterson F, Denney M, Wakeford R, Good D. Fair and equal assessment in postgraduate training? A future research agenda. *Br J Gen Pract* 2011 December; 61(593): 712–713.

Patterson F, Godden A, Rughani A and Smithson H. A leadership programme in GP training: an action learning approach. *Education for Primary care* (2013) 24: 65-68

Patterson F, Lievens F, Kerrin M, Munro N and Irish B. The predictive validity of selection for entry into postgraduate training in general practice: evidence from three longitudinal studies. *Br J Gen Pract*, Nov2013 e734-741

Patterson, F; Tavabie, A; Denney, ML; Kerrin, M; Ashworth, V; Koczwara A; MacLeod S. A new competency model for general practice: implications for selection, training, and careers. *BJGP* Volume 63, Number 610, May 2013 , pp. e331-e338(8)
www.ingentaconnect.com/content/rcgp/bjgp/2013/00000063/00000610/art00034

Pope L, Hawkrigde A, Simpson R. Performance in the MRCGP CSA by candidates' sex: differences according to curriculum area. *Educ Prim Care*. 2014 Jul;25(4):186-93.

Rendel S, Foreman P, Freeman A. Licensing exams and judicial review: the closing of one door and opening of others? *Br J Gen Pract*. 2015 Jan; 65(630):8-9.

Roberts C, Atkins S & Hawthorne K. Performance Features in Clinical Skills Assessment: Linguistic and Cultural Factors in the MRCGP exam. *Centre for Language, Discourse &*

Communication King's College London, 2014.

www.kcl.ac.uk/sspp/departments/education/research/lcd/publications/MRCGPling/MRCGPling.aspx

Rughani A and Lees P. Leadership training: fitness for purpose or fitness for the future? Editorial in *Education for Primary care* (2013) 24: 15-18

Rughani A, Riley B, Rendel S. The future of GP specialty training: enhanced and extended. *Br J Gen Pract.* 2012 Jun;62(599):288-9.

Rughani A; Godden A, Patterson D; Smithson H. Training for leadership. *Br J Gen Pract.* 2012 Jan;62(594): 8-9(2)

Rughani, A. (2008) Workplace-based assessment and the art of performance, *Br J Gen Pract.* Volume 58, Number 553, August 2008 , pp. 582-584(3)

Russell, D; Simpson, R; Eden, M; Foreman, P. "The use of child actors to simulate paediatric patients in the MRCGP Clinical Skills Assessment (CSA): developing an effective model" *Education for Primary Care* 26.4 July 2015 pp 242-247

Russell D, Etherington C, Hawthorne K. How can simulated patients' experiences suggest ways to improve candidate performance in the MRCGP clinical assessments? *Education for Primary Care* 2012 23(6):391-8

Russell D, Simpson R, Rendel S. Standardisation of role players for the Clinical Skills Assessment of the MRCGP. *Education for Primary Care* 2011: 22; 166–70

Shaw B, Fox J, Brown J, Hart A, Mamelok J. An investigation of factors affecting the outcome of the Clinical Skills Assessment(CSA) in general practice specialty training. *Education for Primary Care*; 2014, 25; 91-5.

Siriwardena AN, Irish B, Asghar ZB, Dixon H, Milne P, Neden C, Richardson J, Blow C. Comparing performance among male and female candidates in sex-specific clinical knowledge in the MRCGP. *Br J Gen Pract* 2012 Jun; 62(599): e446-50.

www.ncbi.nlm.nih.gov/pmc/articles/PMC3361125

Siriwardena N, Dixon H, Blow C, Irish B, Milne P. Performance and views of examiners in the Applied Knowledge Test for the nMRCGP licensing examination. *Br J Gen Pract.* Feb 1, 2009; 59(559): e38–e43.

Street S. The progressive challenge of assessing a GP trainee's clinical skills in the workplace: a UK update. *Education for Primary Care* (2015) 26: 60–2.

Wakeford R, Denney ML, Ludka-Stempien, Dacre J, K McManus IC. Cross-comparison of MRCGP & MRCP(UK) in a database linkage study of 2,284 candidates taking both examinations: Assessment of validity and differential performance by ethnicity. *BMC Medical Education.* January 2015, 15:1. www.biomedcentral.com/1472-6920/15/1

Wakeford, R. International medical graduates' relative under-performance in the MRCGP AKT and CSA examinations. *Education for Primary Care* May 2012 23(3):148-152(5).

Wass V, van der Vleuten C, Shatzer J & Jones R (2001) Assessment of clinical competence *The Lancet* (March 24), 357: 945 – 947

Conference Papers, and Poster Presentations post-2008, presented nationally or internationally

Atkins S, Roberts C and Hawthorne K. A sociolinguistic study of communicative features in the GP 'Clinical Skills Assessment': why might certain candidates be performing less well? Poster, AMEE 2012, Lyons

Atkins S, Roberts C and Hawthorne K. Sociolinguistic factors affecting the performance in the MRCGP Clinical Skills Assessment - are poor candidates that easy to spot? Poster, AMEE 2014, Milan, and RCGP Annual Conference 2014, Liverpool.

Atkins, S., Roberts, C. and Hawthorne, K. Simulated consultations, real assessments. COMET (Communication Medicine and Ethics) Conference, Institute of Mental Health, Nottingham, July 2011

Bewick M, Munro N, Patterson F, Wakeford. Setting the Standard for the nMRCGP Clinical Skills Assessment Poster AMEE Annual Conference, Prague, September 2008

Cobb J. Outcome analysis of case adjustment for the MRCGP CSA: Can we make easy cases harder? Poster AMEE Annual Conference, Glasgow, September 2010

Cobb J. Qualitative analysis of case challenge and reliability in the Clinical Skills Assessment of the MRCGP. Poster, AMEE 2013, Prague,

Davies M & Rughani A. WPBA and its "dependability" in the MRCGP assessment process. Paper presentation Ottawa Conference, Kuala Lumpur, March 2012

Deighan M. How well do Selection Scores Predict Trainee Performance in the CSA exam? Poster, AMEE Conference, Prague, 2013

Denney ML, Wiener-Ogilvie S, Johnstone A. Evaluation of a Quality Improvement learning intervention in General Practice training. Poster for NHS Education for Scotland National conference & AMEE Glasgow 2015.

Denney ML, Wiener-Ogilvie S, Johnstone A, Fisher L et al. The Quality Improvement Project Pilot on GP Trainees in SE Scotland: Key Outcomes. Poster for NHS Education for Scotland National conference & AMEE Glasgow 2015.

Denney ML, Johnstone A, Moy J, et al. Setting up a Quality Improvement Project for Final year GP registrars – the Pilot in SE Scotland. NADEGS Conference Stirling January 2015, Southeast Scotland trainers conference & AMEE Glasgow 2015.

Denney ML, Freeman A. Are visitors to a high-stakes OSCE exam more help than hindrance? Poster, RCGP Annual Conference 2014, Liverpool.

Denney ML & Wakeford R, Do individual roleplayers systematically bias the outcome of a high-stakes postgraduate OSCE, in terms of candidate ethnicity? Paper presentation, Ottawa conference 2014, Ottawa

Denney ML & Wakeford R. Significant variations in Clinical Postgraduate Examination Performance by Medical School of Graduation: Results from three years of the MRCGP Clinical Skills Assessment (CSA) & Correlation with MRCP(UK) 'PACES'. Paper presentation Ottawa Conference 2012, Kuala Lumpur

Denney ML and Patterson F. A job analysis of the GP role: Implications for selection, training & careers. Paper presentation, RCGP Annual Conference 2012, Glasgow

Denney ML, Patterson F, Tavabie A, Koczwara A, Kerrin M & Faulkes. A job analysis of the GP role; implications for selection and training" Paper presentation within the session "Achieving a GP workforce for the modern NHS-is it attainable?" RCGP Primary Care Conference, Glasgow, October 2012

Denney ML, Rees J. E-learning Exemplars for GP training on Physical Examination Skills: a New Resource for GP Training. Poster AMEE 2010, Glasgow, and RCGP Primary Care Conference 2010, Harrogate

Denney ML, Rughani A, Foreman P. Selecting examiners for a national family medicine examination (MRCGP): Matching tools to required examiner competencies, averting deselection of inadequate examiners. Poster Ottawa Conference 2012, Kuala Lumpur

Denney ML, Rughani A, Foreman P. Selecting examiners for a national family medicine examination (MRCGP): Matching tools to required examiner competencies, averting deselection of inadequate examiners. Poster Ottawa Conference 2012, Kuala Lumpur

Denney ML, Wakeford R : Are older trainees wiser? Relating MRCGP candidates' OSCE performance to the time since their first medical qualification. Paper presentation AMEE 2011, Vienna

Denney ML, Wakeford R : Quality Assuring 300 examiners for a national high-stakes OSCE (nMRCGP): achieving examiner consistency via selection, training, monitoring and feedback. Poster AMEE 2008, Prague

Denney ML, Wakeford R, Williams: Guidelines for reporting the quality of Postgraduate Examinations: A suggested minimum dataset for psychometricians and assessment specialists. Poster AMEE 2008, Prague

Denney ML, Wakeford R, Whitehorn M. Quality Enhancement of Oral Examinations in Specialty Accreditation Paper presentation AMEE 2009, Malaga

Denney ML, Wakeford R. Are older trainees wiser? Relating MRCGP candidates' OSCE performance to the time since their first medical qualification. Paper presentation AMEE 2011, Vienna.

Denney ML, Wakeford R. Do individual roleplayers systematically bias the outcome of a high-stakes postgraduate OSCE, in terms of candidate ethnicity? Paper presentation, Ottawa conference 2014, Ottawa

Denney ML, Wakeford R. Does performance on MCQ and free response written tests vary differentially by candidate gender and ethnicity? So can choice of 'test modality' be discriminatory? Paper presentation Ottawa Conference 2010, Miami

Denney ML, Wakeford R. The Structure of Failure - an analysis of the patterns of consulting behaviour amongst failing candidates in a high-stakes postgraduate OSCE towards enhancing the quality of candidate feedback. Paper presentation AMEE 2010, Glasgow

Denney ML, Wakeford R. Which UK medical schools produce the highest scoring GP trainees? Poster, RCGP Annual Primary Care Conference October 2013 Harrogate

Foreman P, Denney ML. Potential New Examiners (PNE) for the Clinical Skills Assessment Exam-where do they go wrong. Poster, AMEE 2010, Glasgow

Foreman P, Denney ML. Potential new examiners for the Clinical Skills Assessment Examination-where do they go wrong? Poster AMEE Annual Conference, Glasgow, September 2010

Foreman P. The effects of roleplayer-candidate interactions on fairness in the CSA: an observational study of roleplayer performance based on analysis of CSA video recordings. Poster, AMEE 2013, Prague

Foulkes J, Edwards J & Street S. Quality management of portfolio assessment and its positive influence on training standards. Paper presentation Ottawa Conference 2012, Kuala Lumpur

Freeman A & Wakeford R. Should we limit the number of attempts for high stakes, licensing examinations? Paper presentation, AMEE 2012, Lyons

Freeman A and Wakeford R. Changing standard-setting mechanisms in high-stakes licensing examinations. Paper presentation Ottawa Conference 2012, Kuala Lumpur

Freeman A, Blow C, Wakeford R. How many times should you be allowed to take a licensing examination? Paper presentation AMEE 2010, Glasgow

Hawthorne K, Selby M, Knight R. Making global judgements in CSA/ clinical structured assessments - the pros and cons. Poster AMEE 2010, Glasgow

Howitt A. MRCGP International: Development of an Accreditation Process for Family Medicine Examinations in Differing Countries and Health Care Systems. Paper presentation Ottawa Conference 2012, Kuala Lumpur

Mamelok J, Shaw B, Fox J, Brown J, Hart A. An investigation of factors affecting the outcome of the CSA in general practice specialty training. Poster AMEE, 2013 Prague

Mamelok J. Curriculum and assessment in extended GP training. Poster, RCGP Primary Care Conference 2012, Glasgow

Mamelok J. Delphi research on objectives for EGPT. Presentation at UKCEA September 2011

Mamelok J. WPBA - The RDMP Model, defining the sufficiency of evidence in WPBA. Presentation UKAPDS/NAPCE/ UKCEA Joint symposium, July 2011

Marr C. Indicators of underperformance. Poster, RCGP Annual Conference 2014, Liverpool.

Milne P, Dixon H, Blow C, Siriwardena N. Assuring the quality of an applied knowledge assessment for licensing purposes (Membership of the Royal College of General Practitioners, MRCGP) in UK general practice. Paper presentation Ottawa Conference 2012, Kuala Lumpur

Patterson F, Tavabie A, Koczwara A, Denney ML, Kerrin M & Faulkes. A job analysis to define new selection criteria for UK General Practice". Paper presentation Ottawa Conference, Kuala Lumpur, March 2012

Pope L, Hawkrigde A, Simpson R, Wakeford R. Why do the sexes perform differently in a high stakes postgraduate examination? Paper presentation, Ottawa conference 2014; Poster, AMEE 2014, Milan

Rees J, Denney ML . Creating Physical Exemplars- Orange Underpants and Other Issues: an overview of a new RCGP e-learning project. Poster, RCGP Primary Care Conference 2010, Harrogate; AMEE 2010, Glasgow

Russell D, Etherington C, Hawthorne K. How can simulated patients' experiences suggest ways to improve candidate performance in the MRCGP clinical assessments? Education for Primary Care 2012; 23(6); 391-398. 8.

Shaw B, Fox J, Brown J, Hart A, Mamelok J. An investigation of factors affecting the outcome of the Clinical Skills Assessment(CSA) in general practice specialty training. Poster AMEE 2013, Prague

Street S, Edwards J & Davies M. Assessing excellence in WPBA portfolios. Poster presentation Ottawa Conference 2012, Kuala Lumpur

Wakeford R, Denney ML. Do Examiners favour their own kind? A study of examiners' grades by their own and their candidates' gender, ethnicity and background. Paper presentation, AMEE 2010, Glasgow

Wakeford R. Significantly better OSCE performance in the morning compared to the afternoon: what does it mean? An analysis of 32,006 candidate-cases in the MRCGP Clinical Skills Assessment (CSA) 2009. Paper presentation Ottawa Conference 2012, Kuala Lumpur

Wakeford R. Theatrical dove or hawkish wassock? The consistency of examiner behaviour in a national postgraduate clinical examination. Paper presentation, Ottawa conference 2014, Ottawa

Withnall, R. Feminisation of UK General Practice – a challenge for the Defence Medical Services? Analysis of the sex of successful CSA candidates in 2007 and 2012. Poster, RCGP Annual Conference 2013 Harrogate.

Research work pre-2008, largely on 'Old' MRCGP Examinations

Bingham L, Burrows P, Caird R et al. Simulated surgery: a framework for the assessment of clinical competence. Education for General Practice: 1994; 5: 143-150.

Bingham L, Burrows PJ, Caird R et al. Simulated Surgery – using standardised patients to assess the clinical competence of GP registrars – a potential clinical component for the MRCGP examination. Education for General Practice: 1996; 7: 102-111.

- Burrows PJ, Bingham L. The simulated surgery - an alternative to videotape submission for the consulting skills component of the MRCGP examination: the first year's experience. *British Journal of General Practice* 1999; 49; 269–272.
- Burrows PJ, Bingham L, Brailovsky CA. A modified contrasting groups method used for setting the passmark in a small scale standardised patient examination. *Advances in Health Sciences Education* 1999; 4; 145-154.
- Campion P, Foulkes J, Neighbour R, Tate P Patient centredness in the MRCGP video examination: analysis of large cohort. *British Medical Journal* 2002: 325:691-692
- Denney ML, Wakeford R, Hawthorne K et al. Experiences of simulated patients and candidates in the MRCGP Simulated Surgery examination. *Education for Primary Care* 2006; 17; 354-361
- Dixon H, Blow C, Irish W, Milne P, Siriwardena AN. Evaluation of a postgraduate examination for primary care: perceptions and performance of general practitioner trainers in the multiple choice paper of the Membership Examination of the Royal College of General Practitioners. *Education for Primary Care* 2007; 18; 165-72.
- Dixon H. Candidates' views of the MRCGP examination and its effect upon approaches to learning. A questionnaire study in the Northern Deanery *Education for Primary Care* 2003; 14; 146-157
- Dixon H. The multiple-choice paper of the MRCGP examination: a study of candidates' views of its content and effect on learning. *Education for Primary Care* 2006; 16(6); 655-662.
- Dixon H, Blow C, Irish W, Milne P, Siriwardena AN. Evaluation of a postgraduate examination for primary care: perceptions and performance of general practitioner trainers in the multiple choice paper of the Membership Examination of the Royal College of General Practitioners. *Education for Primary Care* 2007; 18: 165-72.
- Munro N, Hawthorne K, Denney ML, Sales D, Robinson C, Rughani A, Patterson F, Lewis M and Wass V. Developing a new clinical skills assessment (CSA) for licensing UK general practitioners; the why and the how. *Education for Primary Care* 2006;17:301–10
- Denney ML, Wakeford R, Hawthorne K, Bewick M. Experiences of simulated patients and candidates in the MRCGP Simulated Surgery examination: does role-playing affect simulated patients? Are their perceptions of GPs altered? *Education for Primary Care* 2006;17; 354-361
- Hawthorne K, Denney ML, Bewick M, et al. Simulated Surgery – an Exam for our time? Summary of the current status and development of the MRCGP Simulated Surgery module. *Education for Primary Care* 2006; 17; 138-146
- Lyle P. The video component of the MRCGP examination. *British Journal of General Practice* 2003; 53(488); 243.
- McKinstry B, Guthrie B, Freeman G, Heaney D. Is success in postgraduate examinations associated with family practitioners' attitudes or patient perceptions of the quality of their consultations? A cross-sectional study of the MRCGP examination in Great Britain. *Family Practice* 2005; 22(6); 653-657
- McKinstry B, Walker J, Blaney D, Heaney D, Begg D. Do patients and expert doctors agree on the assessment of consultation skills? A comparison of two patient consultation assessment scales with the video component of the MRCGP. *Family Practice* 2004; 21(1); 75-80.
- McManus IC. Does performance improve when candidates resit a postgraduate examination? *Medical Education* 1992; 26(2); 157-62.
- Munro N, Rughani A, Foulkes J, Wilson A, Neighbour R. Assessing validity in written tests of general practice: exploration by factor analysis of candidate response patterns to paper 1 of the MRCGP examination. *Medical Education* 2000; 34; 35-41.

Munro N, Denney M, Rughani A, Foulkes J, Wilson A, Tate P. Ensuring Reliability in UK Written Tests of General Practice; the MRCGP Examination 1998 – 2003. *Medical Teacher* 2005; 27; 37-45.

Roberts C, Sarangi S, Southgate L, Wakeford R, Wass V. Oral examinations—equal opportunities, ethnicity, and fairness in the MRCGP. *British Medical Journal* 2000; 320; 370-375

Simpson RG, Ballard KD. What is being assessed in the MRCGP oral examination? A qualitative study. *British Journal of General Practice* 2005; 55; 430-6.

Siriwardena AN, Edwards A, Champion P, Freeman A, Elwyn G. Involve the patient and pass the MRCGP: investigating shared decision making in a consulting skills examination using a validated instrument. *British Journal of General Practice* 2006; 56; 857–862.

Siriwardena AN, Dixon H, Blow C, Irish B, Milne P. Performance and views of examiners in the Applied Knowledge Test for the nMRCGP licensing examination. *British Journal of General Practice* 2009; 59:110-113

Swanwick T. The video component of the MRCGP examination: threats to validity. *Education for Primary Care* 2004; 15; 311-327.

Tate P, Foulkes J, Neighbour R et al. Assessing physicians' interpersonal skills via videotaped encounters: a new approach for the MRCGP. *Journal of Health Communication* 1999; 4; 143-152.

Tombleson P, Wakeford R. Why do trainees take the MRCGP examination? *Journal of the Royal College of General Practitioners* 1989; 39: 168- 171.

Wakeford R, Foulkes J, McManus C and Southgate, L. MRCGP pass rate by medical school and region of postgraduate training. *British Medical Journal* 1993; 307; 542-543.

Wakeford, R. MRCGP: examining the exam. *British Medical Journal* 1991; 303; 472.

Wakeford R, Farooqi A, Rashid A, Southgate, L. Does the MRCGP examination discriminate against Asian doctors? *British Medical Journal* 1992; 305; 92-94.

Wakeford R, Southgate L, Wass V. Improving oral examinations: selecting, training, and monitoring examiners for the MRCGP. *British Medical Journal* 1995; 311; 931-935.

Wilson DH, Bahrami J. Cardiopulmonary resuscitation and the MRCGP examination. *British Medical Journal* 1990; 300; 44.

Yaphe J, Street S. How do examiners decide?: a qualitative study of the process of decision making in the oral examination component of the MRCGP examination. *Medical Education* 2003; 37; 764–771.

Conference Papers, and Poster Presentations pre-2008, presented nationally or internationally

Bewick M, Munro N, Patterson F, Wakeford. Setting the Standard for the nMRCGP Clinical Skills Assessment Poster AMEE 2008, Prague

Denney ML, Wakeford R: Quality Assuring 300 examiners for a national high-stakes OSCE (nMRCGP): achieving examiner consistency via selection, training, monitoring and feedback. Poster AMEE 2008, Prague

Denney ML, Wakeford R, Williams: Guidelines for reporting the quality of Postgraduate Examinations: A suggested minimum dataset for psychometricians and assessment specialists. Poster AMEE 2008, Prague

Unpublished Research on the MRCGP Examinations

This space is for significant pieces of unpublished work eg Masters dissertations.

Denney ML. Making assessment fair in the MRCGP: A Summary of Research and Development related to the Clinical Skills Assessment and Applied Knowledge Test. Paper submitted to the MRCGP leads & accepted for RCGP website, January 2015.

Denney ML, Mamelok J, Riley B, Rughani A et al within the Curriculum, Assessment and Delivery Support Planning Group for Enhanced GP Training, RCGP. The Four-Year Enhanced GP Curriculum, Assessment and Quality Improvement Programme: A Summary Paper. Paper submitted to the Four Nations Overview Group for Extended GP Training, AoMRC, June 2013.

Dixon H. The Purpose and Process of Assessing General Practitioner Registrars. A Qualitative Study of Stakeholders' Views. Ed. D Thesis, University of Newcastle, 2006

Etherington C. Experiences and expertise of simulated patients in the Clinical Skills Assessment Examination of the Royal College of General Practitioners. Dissertation for MA Clinical Education, Edgehill University, 2010.

Foreman P, Denney ML. Assessing Interpersonal Skills in the Examination for Membership of the Royal College of General Practitioners (MRCGP). A Paper on the strengths and weaknesses and different methodologies of interpersonal skills assessment in the MRCGP. Submitted to the RCGP and the AoMRC, 2016.

Foreman P. The effects of roleplayer- candidate interactions on fairness in the CSA. Dissertation, Masters degree, University of Bedfordshire, 2013

Mamelok J (2012) Achieving a consensus on educational objectives and assessments for extended Specialty Training programmes for licensing in General Practice (GPST). Masters in Medical Education Thesis, University of Dundee 2012

Other research papers which have played a significant role in influencing or developing the MRCGP assessments

Department of Health (2012). Liberating the NHS: Developing the Healthcare Workforce. Accessed via:

www.dh.gov.uk/en/Publicationsandstatistics/Publications/PublicationsPolicyAndGuidance/DH_132076

Esmail A, Roberts C. Independent Review of the Membership of the Royal College of General Practitioners (MRCGP) Examination, GMC 27 September 2013 http://www.gmc-uk.org/education/education_news/23425.asp

General Medical Council (2011) Learning and assessment in the clinical environment: the way forward. GMC London 2011. www.gmc-uk.org/Learning_and_assessment_in_the_clinical_environment.pdf 45877621.pdf

General Medical Council (2010) Standards for curricula and assessment systems GMC London April 2010. Accessed via: www.gmc-uk.org/education/postgraduate/standards_for_curricula_and_assessment_systems.asp

Gerada C, Riley B, Simon C (2012). Preparing the future GP: The case for enhanced GP training. Retrieved from: www.rcgp.org.uk/pdf/Case_for_enhanced_GP_training.pdf

Ogrinc G, Headrick L, Mutha S et al. A framework for teaching medical students and residents about practice-based learning and improvement, synthesized from a literature review. Acad Med 2003;78:748-753.

Patterson F, Lievens F, Kerrin M, Munro N and Irish B. The predictive validity of selection for entry into postgraduate training in general practice: evidence from three longitudinal studies. British Journal of General Practice, Nov2013 e734-741

Schuwirth, LW and CP van der Vleuten (2011). "Programmatic assessment: From assessment of learning to assessment for learning." *Medical Teacher* 33 (6): 478-485.

Sinclair C. Investigation into potential sources of linguistic or cultural bias in the AKT, University of Southampton, April 2014

The Health Foundation (2012). Evidence scan: Quality improvement training for healthcare professionals. Accessed via: <http://www.health.org.uk/publications/quality-improvement-training-for-healthcare-professionals>

van der Vleuten, CPM, LWT Schuwirth et al. (2012). "A model for programmatic assessment fit for purpose." *Medical Teacher* 2012; 34: 205 – 214

van der Vleuten, CP, LW Schuwirth et al. (2010). "The assessment of professional competence: building blocks for theory development." *Best Pract Res Clin Obstet Gynaecol* 24: 703-719.

van der Vleuten CPM. (1996). The assessment of professional competence: developments, research and practical implications. *Advances in Health Science Education* 1996; 1: 41–67.

June 2016