

Dr. Chun Shing Kwok MBBS MSc BSc MRCP(UK)

Clinical Lecturer in Cardiology and Speciality Registrar in Cardiology

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Education

- 2011 **M.B.B.S, University of East Anglia, Norwich, UK**
- The Association of Physicians of Great Britain and Ireland Prize, Jenny Lind Medal in Paediatrics, Arthritis Research Council Prize, 2011 British Pharmacological Society Undergraduate Prize in Clinical Pharmacology
- 2008 **M.Sc., McGill University, Montreal, Canada**
- National Science and Engineering Research Council (NSERC) Postgraduate Scholarship
- 2005 **B.Sc. with first class honours, McGill University, Montreal, Canada**
- Dean's Honour List, Anachemia Prize in Chemistry, Anne Molson Prize in Chemistry, Bellini Family Scholarship, Frederic Lemaistre Award, Herbert Brennen Scholarship, Jan Redpath Exhibition Award, McConnell Award

Employment

- 2015- **West Midland Deanery Speciality Registrar in Cardiology and Academic Clinical Fellow in Cardiology**
- Cardiology Royal Stoke University Hospital (5/8/15-present)
- 2013-15 **North Western Deanery Core Medical Training and Academic Clinical Fellow in Cardiology**
- Diabetes & Endocrinology Royal Albert Edward Infirmary (1/4/15-4/8/15)
 - Rheumatology Wrightington Hospital (3/12/14-31/3/15)
 - Geriatric Medicine Royal Albert Edward Infirmary (6/8/14-2/12/14)
 - Cardiology Royal Bolton Hospital (2/4/14-5/8/14)
 - Gastroenterology Royal Bolton Hospital (4/12/13-1/4/14)
 - Respiratory Medicine Royal Bolton Hospital (7/8/13-3/12/13)
- 2012-13 **Norfolk and Norwich University Hospital NHS Foundation Trust and Norfolk and Suffolk Foundation Trust - Academic Foundation Year 2**
- Psychiatry Hellesdon Hospital (3/4/13-6/8/13)
 - Gastroenterology Norfolk & Norwich University Hospital (5/12/12-2/4/13)
 - Academic Geriatrics Norfolk & Norwich University Hospital (1/8/12-4/12/12)

- 2011-12 **Ipswich Hospital NHS Trust and Norfolk and Norwich University
Hospital NHS Foundation Trust - Academic Foundation Year 1**
- General Surgery Norfolk & Norwich University Hospital (4/4/12-3/4/12)
 - Geriatric Medicine Ipswich Hospital (7/12/11-3/4/12)
 - Trauma and Orthopaedics Ipswich Hospital (2/8/11-6/12/11)

Academic Appointments

- 2017- **Clinical Lecturer in Cardiology at Keele University**
- PhD supervisor: Prof. Mamas Mamas
- 2015-2017 **Academic Clinical Fellow in Cardiology at Keele University**
- Supervisor: Prof. Mamas Mamas
- 2013-15 **Academic Clinical Fellow in Cardiology at the University of Manchester**
- Supervisor: Dr. Mamas Mamas

Editorial Positions

- 2012- **Associate Editor of BMC Pharmacology and Toxicology**
- 2016- **Editorial Board of Journal of Evidence-based Medicine**

Research Skills

- Data analysis of epidemiological datasets using STATA:
 - Myocardial Infarction National Audit Project (MINAP) (300,000+ participants)
 - British Cardiovascular Intervention Society (BCIS) Percutaneous Coronary Intervention (PCI) dataset (700,000+ participants)
 - European Prospective Investigation in Cancer and Nutrition (EPIC)-Norfolk (20,000+ participants)
- Data analysis using Matlab and Microsoft Office applications.
- Systematic review, meta-analysis and adjusted indirect comparison using Review Manager and CADTH indirect comparison software

Grants & Awards

- 2016 North Staffordshire Medical Institute Research Award for £19,451.00.
- 2016 Stephen Whittaker Prize from the West Midlands Physician Association
- 2016 Best Paper in Heart 2015
- 2017 British Cardiovascular Society Meeting Highest Scoring Abstract 2017

Peer-Reviewed Publications

I have a total of 116 peer-reviewed publications that are published or in press.

1. Martin GP, Kinnaird T, Sperrin M, Anderson R, Gamal A, Jabbar A, **Kwok CS**, Barker D, Heatlie G, Zaman AG, Mamas MA. Do outcomes following the management of myocardial infarction from three UK centres differ between weekend and weekday hospital admission? *BMJ Open*. 2017;(In Press).
2. Mamas MA, Sperrin M, Watson MC, Coutts A, Wilde K, Burton C, Kadam UT, **Kwok CS**, Clark AB, Murchie P, Buchan I, Hannaford PC, Myint PK. Do patients have worse outcome with heart failure than cancer? A primary care based cohort study with 10-year follow-up in Scotland. *Eur J Heart Fail*. 2017;(In Press).
3. Rashid M, Rushton CA, **Kwok CS**, Kinnaird T, Kontopantelis E, Olier I, Ludman PL, De Belder MA, Nolan J, Mamas MA. Impact of access site practice on clinical outcomes in patients undergoing percutaneous coronary intervention following thrombolysis for ST-elevation myocardial infarction in the United Kingdom. *JACC Cardiovasc Interv*. 2017;(In Press).
4. **Kwok CS**, Wong CW, Shufflebotham H, Brindley L, Fatima T, Shufflebotham A, Barker D, Patwala A, Heatlie G, Mamas MA. Early readmission after acute myocardial infarction. *Am J Cardiol*. 2017;120(5):723-728.
5. **Kwok CS**, Bagur R, Rashid M, Lavi R, Cibelli M, de Belder MA, Moat N, Hildick-Smith D, Ludman P, Mamas MA. Aortic stenosis and non-cardiac surgery: A systematic review and meta-analysis. *Int J Cardiol*. 2017;240:145-153.
6. **Kwok CS**, Wong CW, Rushton C, Ahmed F, Cunningham C, Davies SJ, Patwala A, Mamas MA, Satchithananda D. Ultrafiltration for acute decompensated cardiac failure: a systematic review and meta-analysis. *Int J Cardiol*. 2017;228:122-128.
7. **Kwok CS**, Hulme W, Olier I, Holroyd E, Mamas MA. Review of early hospitalization after percutaneous coronary intervention. *Int J Cardiol*. 2017;227:370-377.
8. Chue CD, **Kwok CS**, Wong CW, Patwala A, Barker D, Zaidi A, Mamas MA. Efficacy and safety of the subcutaneous implantable cardioverter defibrillator: A systematic review. *Heart*. 2017;103(17):1315-1322.
9. Ayyaz Ul Haq M, Rashid M, **Kwok CS**, Wong CW, Nolan J, Mamas MA. Changes in hand function after transradial cardiac catheterization. *World J Cardiol*. 2017;9(7):609-619.
10. Kotronias RA, **Kwok CS**, George S, Capodanno D, Ludman PF, Townend JN, Doshi SN, Khogali SS, Genereux P, Herrmann HC, Mamas MA, Bagur R. Transcatheter aortic valve implantation with or without percutaneous coronary artery revascularization strategy: A systematic review and meta-analysis. *J Am Heart Assoc*. 2017(6);6:pii:e005960.
11. Iqbal J, **Kwok CS**, Kontopantelis E, de Belder MA, Ludman PF, Large A, Butler R, Gamal A, Kinnaird T, Zaman A, Mamas MA. Choice of stent for percutaneous coronary intervention of saphenous vein grafts. *Circ Cardiovasc Interv*. 2017;10(4):pii:e004457.
12. Holroyd EW, Sirker A, **Kwok CS**, Kontopantelis E, Ludman PF, de Belder MA, Butler R, Cotton J, Zaman A, Mamas MA. The relationship of body mass index to percutaneous coronary intervention outcomes. *JACC Cardiovasc Interv*. 2017;10(13):1283-1292.
13. Bagur R, Solo K, Alghofaili S, **Kwok CS**, Siemieniuk RA, Hayman S, Nombela-Franco L, Toggweiler S, Spencer FA, Vandvik PO, Foroutan F, Guyatt GH, Waksman R, Mamas MA. Cerebral embolic protection devices during transcatheter aortic valve implantation: a systematic review and meta-analysis. *Stoke*. 2017;48(5):1306-1315.

14. Hulme W, Sperrin M, Kontopantelis E, Ratib K, Ludman P, Sirker A, Kinnaird T, Curzen N, **Kwok CS**, de Belder M, Nolan J, Mamas MA. Increased radial access is not associated with worse femoral outcomes for PCI in United Kingdom. *Circ Cardiovasc Interv.* 2017;10(2):e004279.
15. Ahmed FZ, Motwani M, Cunnington C, **Kwok CS**, Fullwood C, Oceandy D, Fitchet A, Goode GK, Luckie M, Zaidi AM, Khattar R, Mamas MA. One-month global longitudinal strain identified patients who will develop pacing-induced left ventricular dysfunction over time: the pacing and ventricular dysfunction (PAVD) study. *PLoS One* 2017;12(1):e0162072.
16. Wu P, Haththotuwa R, **Kwok CS**, Babu A, Kotronias RA, Rushton C, Zaman A, Fryer AA, Kadam U, Chew-Graham CA, Mamas MA. Pre-eclampsia and future cardiovascular health: a systematic review and meta-analysis. *Circ Cardiovasc Qual Outcomes.* 2017;10(2): pii:e003497.
17. Narain A, **Kwok CS**, Mamas MA. Soft drink and the risk of metabolic syndrome: a systematic review and meta-analysis. *Int J Clin Pract.* 2017;71(2): doi:10.1111/ijcp.12927.
18. Kontronias RA, **Kwok CS**, Wong CW, Kinnaird T, Zaman A, Mamas MA. Cancer incidence and mortality with thienopyridine: A systematic review and meta-analysis. *Drug Saf.* 2017;40(3):299-240.
19. Mamas MA, George S, Ratib K, **Kwok CS**, Elkazin A, Sandhu K, Stubbs J, Luxford P, Nolan J. 5-Fr sheathless transradial cardiac catheterization using conventional catheters and balloon assisted tracking: a new approach to downsizing. *Cardiovasc Revasc Med* 2017;18(1):28-32.
20. Rashid M, **Kwok CS**, Gale CP, Doherty P, Olier I, Sperrin M, Kontopantelis E, Peat G, Mamas MA. Impact of co-morbid burden on mortality in patients with coronary heart disease, heart failure and cerebrovascular accident: a systematic review and meta-analysis. *Eur Heart J Qual Care Clin Outcomes* 2017;3(1):20-36.
21. **Kwok CS**, Rashid M, Beynon R, Barker D, Patwala A, Morley-Davies A, Satchithananda D, Nolan J, Myint PK, Buchan I, Loke YK, Mamas MA. Prolonged PR interval, first-degree heart block and adverse cardiovascular outcomes: A systematic review and meta-analysis. *Heart.* 2016; 102(9):672-80.
22. **Kwok CS**, Tiong D, Pradhan A, Andreou AY, Nolan J, Bertrand OF, Curzen N, Urban P, Myint PK, Zaman AG, Loke YK, Mamas MA. Meta-analysis of the prognostic impact of anemia in patients undergoing percutaneous coronary intervention. *Am J Cardiol* 2016;118(4):610-20.
23. **Kwok CS**, Loke YK, Welch AA, Luben R, Lentjes MAH, Boekholdt SM, Pfister R, Mamas MA. Wareham NJ, Khaw KT, Myint PK. Habitual chocolate consumption and risk of incident heart failure among healthy men and women. *Nutr Metab Cardiovasc Dis.* 2016;26(8):722-34.
24. Bagur R, **Kwok CS**, Nombela-Franco L, Ludman PF, de Belder MA, Sponga S, Gunning M, Nolan J, Diamantouros P, Teefy PJ, Kiaii B, Chu MWA, Mamas MA. Transcatheter aortic valve implantation with or without re-implantation balloon aortic valvuloplasty: a systematic review and meta-analysis. *J Am Heart Assoc.* 2016;5(6). pii: e003191.
25. Hulme W, Sperrin M, Rushton H, Ludman PF, de Belder M, Curzen N, Kinnaird T, **Kwok CS**, Buchan I, Nolan J, Mamas MA. Is there a relationship of operator and center volume with access site related outcomes? an analysis from the British Cardiovascular Intervention Society. *Circ Cardiovasc Interv.* 2016;9(5):e003333.
26. Iqbal J, **Kwok CS**, Kontopantelis E, de Belder MA, Ludman PF, Giannoudi M, Gunning M, Zaman A, Mamas MA. Outcomes following primary percutaneous coronary intervention in patients with previous coronary artery bypass surgery. *Circ Cardiovasc Interv.* 2016; 9(4):e003151.
27. Kinnaird T, **Kwok CS**, Konotopantelis E, Ossei-Gerning N, Ludman P, de Belder M, Anderson R, Mamas MA. The incidence, determinants and outcomes of coronary perforation during percutaneous coronary interventions in the United Kingdom between 2006-2013: an analysis of

- 527,121 cases from the British Cardiovascular Intervention Society database. *Circ Cardiovasc Interv* 2016;9(8). pii: e003449.
28. Myint PK, Kidd AC, **Kwok CS**, Musgrave SD, Redmayne O, Metcalf AK, Ngeh J, Nicolson A, Owusu-Agyei P, Shekhar R, Walsh K, Day DJ, Warburton EA, Bachmann MO, Potter JF. Time to computerized tomography scan, age and mortality in acute stroke. *J Stroke Cerebrovasc Dis* 2016 ;25(12):3005-3012.
 29. Nagaraja V, Ooi SY, Nolan J, Large A, de Belder M, Ludman P, Bagur R, Curzen N, Matsukage T, Yoshimachi F, **Kwok CS**, Berry C, Mamas MA. Impact of incomplete percutaneous revascularization in patients with multivessel coronary artery disease: a systematic review and meta-analysis. *J Am Heart Assoc.* 2016;5(12).pii: e004598.
 30. Mamas MA, **Kwok CS**, Kontopantelis E, Fryer AA, Buchan I, Bachmann MO, Zaman MJ, Myint PK. Relationship between anemia and mortality outcomes in a national ACS cohort: insights from the UK MINAP registry. *J Am Heart Assoc* 2016;5(11) pii: e003348.
 31. Myint PK, **Kwok CS**, Roffe C, Kontopantelis E, Zaman A, Berry C, Ludman PF, de Belder MA, Mamas MA. Determinants and outcomes of stroke following percutaneous coronary intervention by indication. *Stroke.* 2016; 47(6):1500-7.
 32. Mamas MA, Nolan J, de Belder MA, Zaman A, Kinnaird T, Curzen N, **Kwok CS**, Buchan I, Ludman P, Kontopantelis E. Changes in arterial access site and association with mortality in the United Kingdom: observation from a national percutaneous coronary intervention database. *Circulation.* 2016; 133(17):1655-67.
 33. Rashid M, **Kwok CS**, Pancholy S, Chugh S, Dedev SA, Bernat I, Ratib K, Large A, Fraser D, Nolan J, Mamas MA. Radial artery occlusion after transradial interventions: a systematic review and meta-analysis. *J Am Heart Assoc.* 2016; 5(1):pii e002686.
 34. Sirker A, **Kwok CS**, Kotronias R, Bagur R, Bertrand O, Butler R, Berry C, Nolan J, Oldroyd K, Mamas M. Influence of access site choice for cardiac catheterization on risk of adverse neurological events: A systematic review and meta-analysis. *Am Heart J* 2016;181:10-119.
 35. Wu P, **Kwok CS**, Haththotuwa R, Kotronias R, Babu A, Fryer AA, Myint PK, Chew-Graham, Mamas MA. Pre-eclampsia is associated with a two-fold increase in diabetes: a systematic review and meta-analysis. *Diabetologia* 2016;59(12):2518-2526.
 36. Zaman MJS, **Kwok CS**, Bachmann MO, Mamas MA, Myint PK. Explaining inequalities in receipt of care in older patients with an acute coronary syndrome. *Eur Heart J Qual Care Clin Outcomes.* 2016; 2(2):59-61.
 37. Mattishent K, **Kwok CS**, Mahtani A, Pelpola K, Myint PK, Loke YK. Prognostic indices for early mortality in ischaemic stroke - meta-analysis. *Acta Neurologica Scand* 2016; 133(1):41-8.
 38. Jafar AJN, Junghans C, **Kwok CS**, Hymers C, Monk KJ, Gold E, Harris TR. Do physiological scoring and a point of care metabolic screen predict outcome in Emergency Department patients admitted to hospital? A pilot study. *Eur J Emerg Med* 2016;23(2):130-6.
 39. Jafar AJN, Junghans C, **Kwok CS**, Hymers C, Monk KJ, Gold E, Harris TR. Does emergency department measured cardiac output predict organ failure at 48 hours? A pilot study. *Jacobs J Emerg Med.* 2016;3(2):027.
 40. Sirker A, Mamas MA, **Kwok CS**, Kontopantelis E, Ludman P, Hildick-Smith D. Outcomes from selective use of thrombectomy in patients undergoing primary percutaneous coronary intervention for ST elevation myocardial infarction - An analysis of the British Cardiovascular Intervention Society/National Institute for Cardiovascular Outcomes Research (BCIS-NICOR) registry 2006-2013. *JACC Cardiovasc Interv.* 2016;9(2):126-34.
 41. Kinnaird T, **Kwok CS**, Narain A, Butler R, Ossei-Gerning N, Ludman P, Moat N, Anderson R, Mamas MA. Meta-analysis of percutaneous coronary intervention with drug eluting stent

- versus coronary artery bypass grafting for isolated proximal left anterior descending coronary disease. *Am J Cardiol* 2016;118(8):1171-1177.
42. Narain A, **Kwok CS**, Mamas MA. Soft drinks and sweetened beverages and the risk of cardiovascular disease and mortality: a systematic review and meta-analysis. *Int J Clin Pract* 2016;70(10):791-805.
 43. Gorst C, **Kwok CS**, Aslam S, Buchan I, Kontopantelis E, Myint PK, Heatlie G, Loke YK, Rutter MK, Mamas MA. Long-term glycaemic variability and risk of adverse outcomes: a systematic review and meta-analysis. *Diabetes Care*. 2015;16(8):2354-69.
 44. **Kwok CS**, Kontopantelis E, Myint PK, Zaman A, Berry C, Keavney B, Nolan J, Ludman PF, de Belder MA, Buchan I, Mamas MA. Stroke following percutaneous coronary intervention: Type-specific incidence, outcomes and determinants seen by the British Cardiovascular Intervention Society 2007-2012. *Eur Heart J* 2015;36(25):1618-28.
 45. **Kwok CS**, Sherwood MW, Watson SM, Nasir SB, Sperrin M, Nolan J, Kinnaird T, Kiatchosakun S, Ludman PF, de Belder MA, Rao SV, Mamas MA. Blood transfusion after percutaneous coronary intervention and risk of subsequent adverse outcomes. *JACC Cardiovasc Interv* 2015;8(3):436-46.
 46. **Kwok CS**, Khan MA, Rao SV, Kinnaird T, Sperrin M, Buchan I, de Belder MA, Ludman PF, Nolan J, Loke YK, Mamas MA. Access and non-access site bleeding after percutaneous coronary intervention and risk of subsequent mortality and major adverse events: A systematic review and meta-analysis. *Circ Cardiovasc Interv* 2015;8(4):pii: e001645.
 47. **Kwok CS**, Rashid M, Fraser D, Nolan J, Mamas MA. Intra-arterial vasodilators to prevent radial artery spasm: a systematic review and pooled analysis of clinical studies. *Cardiovasc Revasc Med*. 2015;16(8):484-90.
 48. **Kwok CS**, Kontopantelis E, Kunadian V, Ratib K, Sperrin M, Zaman A, Ludman PF, de Belder MA, Nolan J, Mamas MA. Effect of access site, gender and indication on clinical outcomes following percutaneous coronary intervention. *Am Heart J* 2015;170(1):164-172.e5.
 49. **Kwok CS**, Boekholdt SM, Lentjes MAH, Loke YK, Luben RN, Yeong JK, Wareham NJ, Myint PK, Khaw KT. Habitual chocolate consumption and risk of cardiovascular disease among healthy men and women. *Heart* 2015;101(16):1279-87.
 50. **Kwok CS**, Umar S, Kontopantelis E, Myint PK, Zaman MJS, Buchan I, Loke YK, Mamas MA. Influenza, influenza-like symptoms and their association with cardiovascular risks: a systematic review and meta-analysis of observational studies. *Int J Clin Pract* 2015;69(9):928-37.
 51. **Kwok CS**, Bachmann MO, Mamas MA, Stirling S, Shepstone L, Myint PK, Zaman MJ. Effect of age on the prognostic value of left ventricular function in patients with acute coronary syndrome: A prospective registry study. *Eur Heart J Acute Cardiovasc Care*. 2015;1-8.
 52. Anderson SG, Ratib K, Myint PK, Keavney B, **Kwok CS**, Zaman A, Ludman PF, de Belder MA, Nolan J, Mamas MA. Impact of age on access site-related outcomes in 469,983 percutaneous coronary intervention procedures. *Catheter Cardiovasc Interv* 2015;86(6):659-65.
 53. **Kwok CS**, Shoamanesh A, Copley HC, Myint PK, Loke YK, Benavente OR. Efficacy of antiplatelet therapy in secondary prevention following lacunar stroke: pooled analysis of randomized trials. *Stroke* 2015;46(4):1014-23.
 54. Bulluck H, **Kwok CS**, Ryding AD, Loke YK. Safety of short-term dual antiplatelet therapy after drug-eluting stents: An updated meta-analysis with direct and adjusted indirect comparison of randomized controlled trials. *Int J Cardiol* 2015;181:331-339.
 55. Mamas MA, Fath-Ordoubadi F, Danzi GB, Spaepen E, **Kwok CS**, Buchan I, Peek N, de Belder MA, Ludman PF, Paunovic D, Urban P. Prevalence and impact of co-morbidity burden as defined by the Charlson Co-morbidity Index on 30-day, 1 and 5-year outcomes after coronary stent implantation (from the Nobori-2 Study). *Am J Cardiol* 2015;116(3):364-71.

56. Mattishent K, **Kwok CS**, Ashkir L, Pelpola K, Myint PK, Loke YK. Prognostic tools for early mortality in haemorrhagic stroke: systematic review and meta-analysis. *J Clin Neurol* 2015;11(4):339-48.
57. Cunningham C, **Kwok CS**, Satchithananda DK, Patwala A, Khan MA, Zaidi A, Ahmed FZ, Mamas MA. Cardiac resynchronization therapy is not associated with a reduction in mortality or heart failure hospitalisation in patients with non-left bundle branch block QRS morphology: Meta-analysis of randomised controlled trials. *Heart* 2015;101(18):1456-62.
58. **Kwok CS**, Clark AB, Musgrave SD, Potter JF, Dalton G, Day DJ, George A, Metcalf AK, Ngeh J, Nicolson A, Owusu-Agyei P, Shekhar R, Walsh K, Warburton EA, Bachmann MO, Myint PK. The SOAR stroke score predicts hospital length of stay in acute stroke: an external validation study. *Int J Clin Pract* 2015;69(6):659-65.
59. **Kwok CS**, Pal A, Sargen K. Cystogram use and outcomes in colorectal surgery involving bladder repair: A clinical audit. *ANZ J Surg* 2015;85(10):774-6.
60. Myint PK, Fox GC, **Kwok CS**, Luben RN, Wareham NJ, Khaw KT. Total anticholinergic burden and risk of mortality and cardiovascular disease over 10 years in 21,636 middle and older aged men and women of the EPIC-Norfolk prospective population study. *Age Ageing* 2015;44(2):219-25.
61. **Kwok CS**, Anderson SG, McAllister KS, Sperrin M, O'Kane PD, Keavney B, Nolan J, Myint PK, Zaman A, Buchan I, Ludman PF, de Belder MA, Mamas MA. Impact of age on the prognostic value of left ventricular function in relation to procedural outcomes following percutaneous coronary intervention: Insights from the British cardiovascular intervention society. *Catheter Cardiovasc Interv* 2014;85(6):944-51.
62. **Kwok CS**, Anderson SG, Myint PK, Mamas MA, Loke YK. Physical activity and incidence of atrial fibrillation: a systematic review and meta-analysis. *Int J Cardiol* 2014;117(2):467-76.
63. **Kwok CS**, Umar S, Myint PK, Mamas MA, Loke YK. Vegetarian diet, Seventh Day Adventists and risk of cardiovascular mortality: a systematic review and meta-analysis. *Int J Cardiol* 2014;176(3):680-6.
64. **Kwok CS**, Loke YK, Pradhan S, Keavney B, El-Omar M, Mamas MA. Renal denervation and blood pressure reduction in resistant hypertension: a systematic review and meta-analysis. *Open Heart* 2014;1(1):e000092.
65. **Kwok CS**, Rao SV, Myint PK, Keavney B, Nolan J, Ludman PF, de Belder MA, Loke YK, Mamas MA. Major bleeding after percutaneous coronary intervention and risk of subsequent mortality: a systematic review and meta-analysis. *Open Heart* 2014;1(1):e000021.
66. **Kwok CS**, Pradhan A, Khan MA, Anderson SG, Keavney BD, Myint PK, Mamas MA, Loke YK. Bariatric surgery and its impact on cardiovascular disease and mortality: a systematic review and meta-analysis. *Int J Cardiol* 2014;173(1):20-8.
67. **Kwok CS**, Crossman PT, Loizou CL. Plate versus nail for distal tibial fractures: a systematic review and meta-analysis. *J Ortho Trauma* 2014;28(9):542-8.
68. **Kwok CS**, Bulluck H, Ryding AD, Loke YK. Benefits and harms of extending the duration of dual antiplatelet therapy after percutaneous coronary intervention with drug-eluting stents: a meta-analysis. *The Scientific World Journal* 2014;2014:794078.
69. Myint PK, **Kwok CS**, Bachmann MO, Stirling S, Shepstone L, Zaman MJ. Prognostic value of troponins in acute coronary syndrome depends upon age. *Heart* 2014;100(20):1583-90.
70. Myint PK, **Kwok CS**, Luben RN, Wareham NJ, Khaw KT. Body fat percentage, body mass index and waist-to-hip ratio as predictors of mortality and cardiovascular disease. *Heart* 2014;100(20):1613-9.

71. Loke YK, Pradhan S, Yeong JK, **Kwok CS**. Comparative coronary risks of apixaban, rivaroxaban and dabigatran: a meta-analysis and adjusted indirect comparison. *Br J Clin Pharmacol* 2014;78(4):707-17.
72. Fox C, Smith T, Maidment I, Chan WY, Bua N, Myint PK, Moustani M, **Kwok CS**, Glover M, Koopmans I, Campbell N. Effect of medications with anti-cholinergic properties on cognitive function, delirium, physical function and mortality: a systematic review. *Age Ageing* 2014;43(5):604-615.
73. Turner RM, **Kwok CS**, Chen-Turner C, Maduakor C, Singh S, Loke YK. Thiazolidinediones and associated risk of bladder cancer: a systematic review and meta-analysis. *Br J Clin Pharmacol* 2014;78(2):258-73.
74. **Kwok CS**, Ong ACL, Potter JF, Metcalf A, Myint PK. TIA, stroke, and orthostatic hypotension: a disease spectrum related to ageing vasculature. *Int J Clin Pract* 2014;68(6):705-13.
75. **Kwok CS**, Musgrave SD, Price GM, Dalton G, Myint PK. Similarity of patient characteristics and outcomes in consecutive data collection on stroke admissions over one month compared to longer periods. *BMC Res Notes* 2014;7:342.
76. Myint PK, Clark AB, **Kwok CS**, Davis J, Durairaj R, Dixit AK, Sharma AK, Ford GA, Potter JF. The SOAR (Stroke subtype, Oxfordshire Community Stroke Project classification, Age, prestroke modified Rankin) score strongly predicts early outcomes in acute stroke. *Int J Stroke* 2014;9(3):278-283.
77. Myint PK, Clark AB, **Kwok CS**, Loke YK, Yeong JKY, Luben RN, Wareham NJ, Khaw KT. Bone mineral density and incidence of stroke: EPIC-Norfolk population-based study, systematic review and meta-analysis. *Stroke* 2014;45(2):373-82.
78. **Kwok CS**, Loke YK, Woo K, Myint PK. Risk prediction models for mortality in community-acquired pneumonia: a systematic review. *Biomed Res Int* 2013;2013:504136.
79. Harrison T, **Kwok CS**, Wordsworth D, Servant CTJ. Femoral nerve injury due to an open subtrochanteric hip fracture – the importance of early detection and implication for rehabilitation. *International Journal of Case Reports in Medicine* 2013;4:doi:10.5171/2013.172885.
80. **Kwok CS**, Krupa L, Mahtani A, Kaye D, Rushbrook SM, Phillips MG, Gelson. Albumin reduces paracentesis induced circulatory dysfunction and reduces death and renal impairment among patients with cirrhosis and infection: a systematic review and meta-analysis. *Biomed Res Int* 2013;2013:295153.
81. **Kwok CS**, Potter JF, Dalton G, George A, Metcalf AK, Ngeh J, Nicholson A, Owusu-Agyei P, Shekhar R, Walsh K, Warburton EA, Myint PK. The SOAR stroke score predicts in-patient and 7-day mortality in acute stroke. *Stroke* 2013;44(7):2010-2012.
82. **Kwok CS**, Pradhan S, Yeong JK, Loke YK. Relative effects of two different enoxaparin regimens as comparators against newer oral anticoagulants: meta-analysis and adjusted indirect comparison. *Chest* 2013;144(2):593-600.
83. Loke YK, **Kwok CS**, Wong JM, Sankaran P, Myint PK. Chronic obstructive pulmonary disease and mortality from pneumonia: Meta-analysis. *Int J Clin Pract* 2013;67(5):477-87.
84. **Kwok CS**, Harrison T, Servant C. The optimal timing for anterior cruciate ligament reconstruction with respect to risk of post-operative stiffness: a systematic review and meta-analysis. *Arthroscopy* 2013;29(3):556-65.
85. **Kwok CS**, Pang CL, Yeong JK, Loke YK. Measures used to treat contrast induced nephropathy: overview of reviews. *Br J Radiol.* 2013;86(1021):20120272.
86. **Kwok CS**, Jeevanantham V, Dawn B, Loke YK. No consistent evidence of differential cardiovascular risk amongst proton-pump inhibitors when used with clopidogrel: meta-analysis. *Int J Cardiol* 2013;167(3):965-74.

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