

Patrick A Coughlin MB ChB, MD, FRCS (Eng)

Current Position

Consultant Vascular and Endovascular Surgeon, Addenbrooke's Hospital, Cambridge.
Associate Lecturer. University of Cambridge.

Date of Birth: 31st July 1974

Place of Birth: Preston

Marital status: Married (Diane Coughlin; one child Hannah aged 8)

Nationality: British

GMC Reg. No.: 4424671

MPS Reg. No.: 247745

Work Address

Department of Vascular Surgery
Box 201
Addenbrooke's Hospital
Hills Road
Cambridge CB2 2QQ

Qualifications

2010 Certification of Completion of Training (CCT)
2009 FRCS (Eng)
2004 MD (University of Leeds)
2003 MRCS (Eng) / MRCS (Ed)
1997 MB ChB

Clinical Experience

- I have been a consultant surgeon in a large tertiary referral unit for 5 years
- I deliver hub and spoke services as part of vascular surgery centralisation undertaking complex arterial and venous interventions as part of a multi-disciplinary team. As part of the hub and spoke arrangement I also undertake a days work in a spoke district general hospital (West Suffolk Hospital) and so am well aware of the challenges of working in both types of environments.
- Surgeon specific results are now published for vascular surgeons in the UK with regard to carotid endarterectomy and abdominal aortic aneurysm repair. These can be accessed at the following link: <http://www.vsqip.org.uk/wp/wp-content/uploads/2013/07/NVR-2013-Report-on-Surgical-Outcomes-Consultant-Level-Statistics.pdf>
- As an Addenbrookes consultant I obviously now work in a hospital that has been given an inadequate rating by the CQC (2015). I have therefore had experience of preparation of a CQC visit and the issues associated with an inadequate rating.
- My vascular surgical training has been varied having worked in a number of hospital both in the UK and abroad (Hull, Leeds, Perth (Western Australia) and St Georges Hospital, London – Appendix 1).

Education

Undergraduate

- I am the vascular surgery lead for undergraduate clinical training. I have developed and oversee a new weekly clinical teaching programme for the year 1 students, which was started this academic year. I perform a similar role for year 3 students.
- I have also established two in depth programmes targeted at specific aspects of vascular surgery (management of complex aneurysmal disease / lower limb ischaemia) which will be delivered to the year 2 clinical students at the start of the next academic year.
- As part of this programme I have also developed a comprehensive library of clinically relevant slides on core vascular themes that is accessible on the medical school intranet.
- I also exam for the year 1 and year 3 elements of the clinical undergraduate course at Cambridge.

Postgraduate

- I am a member of the Eastern Deanery Vascular Surgery Training Committee and have developed and delivered a new education-training program for the higher surgical trainees within the program.
- I have designed, funded through sponsorship and convened cadaveric based courses providing “hands on” experience of complex vascular exposures / procedures in a specifically designed surgical training centre. This has required discussions with industry re. funding, using various methods of course promotion and putting together comprehensive course material to enhance the learning experience. Feedback from these courses was excellent.
- I am a member of the MCQ examination committee with responsibility for delivering a new MCQ examination for the FRCS (Vasc) specialty examination.

- I am an examiner for the European Board Vascular Surgery examination and have recently played an integral role in question development for the exam.
- I am an external examiner for postgraduate degrees for the University of London, examining both MD and PhD students.
- I am a member of both the Core and Higher Surgical Training interview panels for national selection.
- I have been a member of faculty for both the Basic Surgical Skills Course and Care of the Critically Ill Surgical Patient.
- I am an educational and clinical supervisor for Foundation Year 1 / 2 doctors and Academic Clinical Fellows

Management

- I am the audit and governance lead for the vascular network and have played an integral role in developing the terms of reference for the network as well as leading the six monthly governance meeting including members from both the hub and spoke.
- I am the clinical lead for the vascular studies unit at Addenbrookes hospital. During this time the unit has developed from having two vascular scientists to four (soon to be five) with an expansion in the number of ultrasound machines, a move to new premises and an increase in the services offered to the hospital.
- I have recently been elected to the committee of the British Society of Endovascular Therapy (BSET) the leading endovascular society within the UK.
- Previous committee work included being the trainee representative on the Higher Surgical Training committee within the Yorkshire Deanery.

Research (Appendix 2)

- I have a strong interest in delivering clinical and translational research
- My main research interest is with regard to outcomes (clinical / functional / cardiovascular) in patients with chronic lower limb ischaemia (LLI).
- I have published in a number of leading surgical journal with regard to outcomes in patients with intermittent claudication and more recently on clinical and cardiovascular outcomes in patients with critical limb ischaemia. I have also written a number of book chapters related to vascular surgery.
- I have been awarded a number of competitive grants to support my research.
- I have supervised a number of postgraduate students.
- I have forged a number of collaborations with fellow researchers from the University of Cambridge. These have resulted in the development of a number of key research strategies:
 - Determination of the role of inflammation and calcification using PET/CT imaging of the lower limb arterial tree in patients with LLI (collaboration with Dr J Rudd, Department of Medicine University of Cambridge).
 - Identification of factors that predict lower limb atherosclerotic disease progression and its association with longer term cardiovascular outcomes.
 - Improving functional outcomes following surgery. The population is getting older with associated challenges especially in vascular surgery with regard to both patient selection for intervention and the subsequent post-operative rehabilitation. We have already shown that a frailty phenotype has a deleterious effect on a number of outcomes in patients

with vascular surgery. Similar studies need to be performed in emergency and elective general surgery patients and then potential therapies trialled in at risk individuals (collaboration with the department of geriatrics, Addenbrookes Hospital, Cambridge.)

- Further collaborations have been made with the MRC Biostatistic Unit (Dr. D. Jackson meta-analysis, random effects modeling, data synthesis) which has led to the publication of a number of peer reviewed papers on the research themes above.
- I receive frequent invitations to review manuscripts for a number of major journals and have undertaken grant reviews for the NIHR. The journals for which I act as reviewer are:
 - Circulation
 - Annals of Surgery
 - British Journal of Surgery
 - The Journal of Cardiovascular Surgery
 - Future Cardiology
 - Diabetes and Vascular Disease Research

Membership of learned societies

- Royal College of Surgeons of England
- Royal College of Surgeons of Edinburgh
- Vascular Society of Great Britain & Ireland
- British Society of Endovascular Therapy

Personal Interests

I am a keen sportsman.

- I still play veterans football on a weekly basis. Prior to this I play for 20 years for Leeds Medics and Dentists Football Club being first team captain for six years during which we won the league and cup double in the Yorkshire Old Boys League.
- I also still play competitive league cricket every Saturday although at a slightly lower level than when I was in my pomp.
- I am a member of the Marylebone Cricket Club whose headquarters are at Lords. I have played over 80 games for the MCC in a variety of matches and have represented the club on tour in Cyprus in 2014.
- I continue to ski on a yearly basis and try to get out running two to three times a week.

I have also resurrected my musical career, having previously played the clarinet to grade 7 and piano to grade 5 as a child. I now play both instruments once again and attend lessons with my daughter who is also learning.

I am a parent governor at my daughter's school and alongside attending not only the overall committee meetings, I am also a member of the resources subcommittee.

Appendix 1

Previous Posts During Surgical Training

Specialist Registrar, Northern & Yorkshire HST Rotation

Professor DJ Scott, Mr DC Berridge

Leeds Vascular Institute

Leeds General Infirmary

Leeds

1st April 2010 – 24th December 2010

British Society of Endovascular Therapy (BSET) Fellow

Professor MM Thompson, Mr IM Loftus.

Department of Vascular Surgery

St Georges Hospital

London

1st October 2009 – 31st March 2010

Specialist Registrar, Northern & Yorkshire HST Rotation

Honorary Clinical Lecture, University of Hull

Prof. PT McCollum, Mr BF Johnson, Mr PM Renwick, Mr B Akomolafe, Mr IC Chetter

Academic Vascular Unit,

Hull Royal Infirmary

2nd Feb 2009 – 30th Sept 2009

Out Of Programme Experience (OOPE)

Senior Registrar in Vascular Surgery

Professor MC Stacey, Professor PE Norman, Mr A Scott, Mr B Stanley, Mr R Bond

Academic Vascular Unit

Fremantle Hospital

Perth. Western Australia

21st Jan 2008 – 23rd Jan 2009

Specialist Registrar, Northern & Yorkshire HST Rotation

Honorary Clinical Lecture, University of Hull.

Prof. PT McCollum, Mr BF Johnson, Mr PM Renwick, Mr B Akomolafe, Mr IC Chetter

Academic Vascular Unit,

Hull Royal Infirmary

3rd Oct 2005 – 31st Dec 2007

Specialist Registrar, Northern & Yorkshire HST Rotation

Vascular and Colorectal Surgery

Mr. PJ Curley, Mr. CD Irvine, Mr. J Hossain (Vascular Surgery)

Mr MJ Rogers (Colorectal Surgery)

Pinderfields General Hospital

1st Oct 2004 – 30th Sept 2005

Specialist Registrar, Northern & Yorkshire HST Rotation

General Surgery

Mr. EP Dewar, Mr. B. Khan

Department of General Surgery

Airedale Hospital, North Yorkshire

1st Apr 2004 – 30th Sept 2004

Specialist Registrar, Northern & Yorkshire HST Rotation

Vascular Surgery

Mr MJ Gough, Mr AI Mavor, Prof. S Homer-Vanniasinkam

Department of Vascular Surgery

Curriculum Vitae. Mr Patrick Coughlin. MB ChB, MD, FRCS (Eng)

February 2016

Leeds General Infirmary

1st Oct 2003 – 31st Mar 2004

Specialist Registrar, Northern & Yorkshire HST Rotation

General Surgery

Professor M McMahon

Professorial Surgical Unit,

Leeds General Infirmary

4th Aug 2003 – 30th Sep 2003

Basic surgical training.

Yorkshire School of Surgery

1st Aug 2000 - 3rd Aug 2003

General Surgery, Huddersfield Royal Infirmary.

Accident and Emergency / Anatomy demonstrator, St James's University Hospital.

Cardiothoracic Surgery, Leeds General Infirmary.

Hepatobiliary Surgery, St. James's University Hospital.

Accident and Emergency, Huddersfield Royal Infirmary.

Orthopaedics, Huddersfield Royal Infirmary

Vascular Research Fellow

1st Aug 1998 - 31st July 2000

Prof. RC Kester, Mr DJA Scott

Department of Vascular & Endovascular Surgery

St James's University Hospital, Leeds, UK

Dr. Pam Jones

Leeds Institute of Molecular Medicine

Pre-Registration House Officer

1st Aug 1997 – 30th Apr 1998

Department of Surgery, St. James's University Hospital.

Department of Medicine, Pinderfields Hospital. Wakefield.

Appendix 2 – Research Activities

Publications

1. Oakland K, Nadler R, Cresswell L, Jackson D, **Coughlin PA**. Systematic review and meta-analysis of the association between frailty and outcome in surgical patients. *Ann R Coll Surg Engl*. 2016 Feb;98(2):80-5.
2. **Coughlin PA**, Berridge DC. Is there a continuing role for traditional surgery? *Phlebology*. 2015 Nov;30(2 Suppl):29-35.
3. Srinivasan A, Ambler GK, Hayes PD, Chowdhury MM, Ashcroft S, Boyle JR, **Coughlin PA**. Premorbid function, comorbidity, and frailty predict outcomes after ruptured abdominal aortic aneurysm repair. *J Vasc Surg*. 2015 Oct 21. (In press).
4. **Coughlin PA**. Commentary on "Male Sex Associated With Increased Long-term Cardiovascular Mortality After Peripheral Vascular Surgery for Atherosclerosis Despite Optimal Medical Treatment". *Eur J Vasc Endovasc Surg*. 2015 Dec;50(6):774.
5. Ambler GK, **Coughlin PA**, Hayes PD, Varty K, Gohel MS, Boyle JR. Incidence and Outcomes of Severe Renal Impairment Following Ruptured Abdominal Aortic Aneurysm Repair. *Eur J Vasc Endovasc Surg*. 2015 Oct;50(4):443-9.
6. Chowdhury MM, Sabbagh CN, Jackson D, **Coughlin PA**, Ghosh J. Antithrombotic treatment for acute extracranial carotid artery dissections: a meta-analysis. *Eur J Vasc Endovasc Surg*. 2015 Aug;50(2):148-56.
7. Rudd JH, **Coughlin PA**, Groves AM. Predicting Aortic Aneurysm Expansion by PET. *J Nucl Med*. 2015 Jul;56(7):971-3.
8. Ambler GK, Brooks DE, Al Zuhir N, Ali A, Gohel MS, Hayes PD, Varty K, Boyle JR, **Coughlin PA**. Effect of frailty on short- and mid-term outcomes in vascular surgical patients. *Br J Surg*. 2015 May;102(6):638-45.
9. Jackson D, Rollins K, **Coughlin P**. A multivariate model for the meta-analysis of study level survival data at multiple times. *Res Synth Methods*. 2014 Sep;5(3):264-72.
10. Ambler GK, Twine CP, Shak J, Rollins KE, Varty K, **Coughlin PA**, Hayes PD, Boyle JR. Survival following ruptured abdominal aortic aneurysm before and during the IMPROVE Trial: a single-centre series. *Eur J Vasc Endovasc Surg*. 2014 Apr;47(4):388-93.
11. Mockford KA, Gohil RA, Mazari F, Khan JA, Vanicek N, **Coughlin PA**, Chetter IC. Effect of supervised exercise on physical function and balance in patients with intermittent claudication. *Br J Surg*. 2014 Mar;101(4):356-62.
12. Lane RA, Mazari F, Mockford KA, Vanicek N, Chetter IC, **Coughlin PA**. Fear of falling in claudicants and its relationship to physical ability, balance, and quality of life. *Vasc Endovascular Surg*. 2014 May;48(4):297-304.
13. Vanicek N, King SA, Gohil R, Chetter IC, **Coughlin PA**. Computerized dynamic posturography for postural control assessment in patients with intermittent claudication. *J Vis Exp*. 2013 Dec 11;(82):e51077.

14. Ambler GK, Dapaah A, Al Zuhir N, Hayes PD, Gohel MS, Boyle JR, Varty K, **Coughlin PA**. Independence and mobility after infrainguinal lower limb bypass surgery for critical limb ischemia. *J Vasc Surg*. 2014 Apr;59(4):983-987.
15. McMullin CM, Bayat I, Rytina E, See TC, Varty K, **Coughlin PA**. Profound acute limb ischemia affecting all four limbs following cocaine inhalation. *J Vasc Surg*. 2013 Oct 28. (In press).
16. Bailey MA, **Coughlin PA**, Scott DJ. The NHS Choices website under-reports the workload of high-volume centres for carotid endarterectomy (CEA) and abdominal aortic aneurysm (AAA) repair. *Bulletin of the Royal College of Surgeons of England*. 2013. 95(10). 336.
17. Gohil R, Lane TR, **Coughlin P**. Review of the adaptation of skeletal muscle in intermittent claudication. *World Journal of Cardiovascular Diseases*, 2013, 3, 347-360.
18. Gohil RA, Mockford KA, Mazari FA, Khan JA, Vanicek N, Chetter IC, **Coughlin PA**. Percutaneous transluminal angioplasty results in improved physical function but not balance in patients with intermittent claudication. *J Vasc Surg*. 2013 Dec;58(6):1533-9.
19. Rollins KE, Jackson D, **Coughlin PA**. Meta-analysis of contemporary short- and long-term mortality rates in patients diagnosed with critical leg ischaemia. *Br J Surg*. 2013 Jul;100(8):1002-8.
20. **Coughlin PA**, Jackson D, White AD, Bailey MA, Farrow C, Scott DJ, Howell SJ. Meta-analysis of prospective trials determining the short- and mid-term effect of elective open and endovascular repair of abdominal aortic aneurysms on quality of life. *Br J Surg*. 2013 Mar;100(4):448-55.
21. Chandra E, Ahmadi M, Bailey MA, Griffin KJ, Berridge DC, **Coughlin PA**, Scott DJ. Early re-presentations and the potential role of catheter-directed thrombolysis in patients diagnosed with a lower limb deep vein thrombosis: a single-centre experience. *Phlebology*. 2013 Dec;28(8):404-8.
22. Gohil RA, Mockford KA, Mazari F, Khan J, Vanicek N, Chetter IC, **Coughlin PA**. Balance impairment, physical ability, and its link with disease severity in patients with intermittent claudication. *Ann Vasc Surg*. 2013 Jan;27(1):68-74.
23. Dunne JA, Bailey MA, Griffin KJ, Sohrabi S, **Coughlin PA**, Scott DJ. Statins: The Holy Grail of Abdominal Aortic Aneurysm (AAA) Growth Attenuation? A Systematic Review of the Literature. *Curr Vasc Pharmacol*. 2012 Jun 22.
24. King S, Vanicek N, Mockford KA, **Coughlin PA**. The effect of a 3-month supervised exercise programme on gait parameters of patients with peripheral arterial disease and intermittent claudication. *Clin Biomech (Bristol, Avon)*. 2012 Oct;27(8):845-51.
25. Bailey MA, **Coughlin PA**, Sohrabi S, Griffin KJ, Rashid ST, Troxler MA, Scott DJ. Quality and readability of online patient information for abdominal aortic aneurysms. *J Vasc Surg*. 2012 Jul;56(1):21-6.

26. Rollins KE, **Coughlin PA**. Functional outcomes following revascularisation for critical limb ischaemia. *Eur J Vasc Endovasc Surg*. 2012 Apr;43(4):420-5.
27. Sun ZD, Bailey MA, Griffin KJ, **Coughlin PA**, McPherson SJ, Scott DJ. Aberrant medial sural artery causing popliteal vein entrapment syndrome. *Phlebology*. 2012 Mar;27(2):93-5.
28. Bridge KI, Bailey MA, **Coughlin PA**, Gilmour D, Puppala S, Scott DJ. Images in vascular medicine. Delayed Horner's syndrome as a presenting symptom of traumatic internal carotid artery dissection and pseudoaneurysm. *Vasc Med*. 2011 Apr;16(2):159-60.
29. Bailey MA, Farquharson NR, **Coughlin PA**, Vora A, Puppala S, Scott DJ. Internal iliac artery pseudoaneurysm in an infant following bone marrow trephine biopsy. *Br J Haematol*. 2011 Apr;153(1):1.
30. Mockford KA, Mazari FA, Jordan AR, Vanicek N, Chetter IC, **Coughlin PA**. Computerized Dynamic Posturography in the Objective Assessment of Balance in Patients with Intermittent Claudication. *Ann Vasc Surg*. 2011 Feb;25(2):182-90.
31. Mekako AI, Chetter IC, **Coughlin PA**, Hatfield J, McCollum PT; Hull Antibiotic pRophylaxis in varicose Vein Surgery Trialists (HARVEST). Randomized clinical trial of co-amoxiclav versus no antibiotic prophylaxis in varicose vein surgery. *Br J Surg*. 2010 Jan;97(1):29-36
32. Hatfield J, Gulati S, Abdul Rahman MN, **Coughlin PA**, Chetter IC. Nurse-led risk assessment/management clinics reduce predicted cardiac morbidity and mortality in claudicants. *J Vasc Nurs*. 2008 Dec;26(4):118-22.
33. Gulati S, **Coughlin PA**, Hatfield J, Chetter IC. Quality of life in patients with lower limb ischemia; revised suggestions for analysis. *J Vasc Surg*. 2009 Jan;49(1):122-6.
34. Vohra RS, **Coughlin PA**, McShane P, Bains M, Laughlan KA, Gough MJ; General Anaesthetic versus Local Anaesthetic for Carotid Endarterectomy (GALA) Trial Collaborators. Predictors of return to work following carotid endarterectomy. *Br J Surg*. 2008 Sep;95(9):1111-4.
35. Vohra RS, **Coughlin PA**, Gough MJ. Occupational capacity following surgical revascularization for lower limb claudication. *Eur J Vasc Endovasc Surg*. 2007 Dec;34(6):709-13.
36. **Coughlin PA**, Gulati V, Mavor AI, Gough MJ, Homer-Vanniasinkam S. Risk factor awareness in patients with peripheral arterial disease. *J Cardiovasc Surg (Torino)*. 2007 Dec;48(6):735-40.
37. Currie S, **Coughlin PA**, Bhasker S, Hossain J, Irvine CD, Curley PJ. Vascular surgery is an unattractive career option for current basic surgical trainees: a regional perspective. *Ann R Coll Surg Engl*. 2007 Nov;89(8):792-5.

38. **Coughlin PA**, Kent PJ, Berridge DC, Scott DJ, Kester RC. The PADHOC Device is a Better Guide to the Actual Incapacity Suffered by Claudicants than the Gold Standard Constant Load Treadmill Test. *Eur J Vasc Endovasc Surg.* 2006 Dec;32(6):651-656.
39. **Coughlin PA**, Mavor AI. Arterial Consequences of Recreational Drug Use. *Eur J Vasc Endovasc Surg.* 2006 Oct;32(4):389-96
40. Shah SS, Sadaba JR, Batchelor TJ, **Coughlin PA**, Burniston MT, Barnfield M, Munsch CM. Tissue perfusion in non-donor and donor forearm/hand after radial artery harvest: 1- and 5-year follow-up. *Interact Cardiovasc Thorac Surg.* 2006 Aug;5(4):353-5.
41. **Coughlin PA**, Stringer MD, Lodge JP, Pollard SG, Prasad KR, Toogood GJ. Management of blunt liver trauma in a tertiary referral centre. *Br J Surg.* 2004 Mar;91(3):317-21.
42. **Coughlin PA**, Birkinshaw RI. Zyban: Increasing The Workload In An Accident And Emergency Department? *Eur J Emerg Med.* 2003 Mar; 10(1): 62-3.
43. **Coughlin PA**, Kent PJ, Kester RC. Femorofemoral Venous Bypass Graft For The Treatment Of Venous Occlusion Of The Common Femoral Vein In A Nine Year Old Boy. *Cardiovasc Surg* 2002 Aug; 10(4): 359-61.
44. Turton EP, **Coughlin PA**, Kester RC, Scott DJ. Exercise Training Reduces The Acute Inflammatory Response Associated With Claudication. *Eur J Vasc Endovasc Surg* 2002 Apr; 23(4): 309-16.
45. **Coughlin PA**. When To Do Research? Research Between House Jobs And The Basic Surgical Rotation. *Association Of Surgeons In Training Yearbook* 2001-2002. 53-4
46. **Coughlin PA**, Kent PJ, Turton EP, Byrne P, Berridge DC, Scott DJ, Kester RC. A New Device For The Measurement Of Disease Severity In Patients With Intermittent Claudication. *Eur J Vasc Endovasc Surg* 2001 Dec;22(6):516-22
47. **Coughlin PA**, Bonser R, Turton EP, Kent PJ, Kester RC. A Comparison Between Two Methods Of Aesthesiometric Assessment In Patients With Hand-Arm Vibration Syndrome. *Occup Med (Lond)* 2001 Jun;51(4):272-7
48. Turton EP, **Coughlin PA**, Berridge DC, Mercer KG. A Survey Of Deep Venous Thrombosis Management By Consultant Vascular Surgeons In The United Kingdom And Ireland. *Eur J Vasc Endovasc Surg* 2001 Jun;21(6):558-63
49. **Coughlin PA**. Management Of Deep Venous Thrombosis. *Prescriber* 2001; 12(11): 91-93.
50. Wijesinghe LD, **Coughlin PA**, Robertson I, Kessel D, Kent PJ, Kester RC. Cyclist's Iliac Syndrome: Temporary Relief By Balloon Angioplasty. *Br J Sports Med* 2001;35:70-72.

51. **Coughlin PA**, Chetter IC, Kent PJ, Kester RC. The Analysis Of Sensitivity, Specificity, Positive Predictive Value And Negative Predictive Values Of Cold Provocation Thermography In The Objective Diagnosis Of The Hand-Arm Vibration Syndrome. Occupational Medicine 2001; 51(2): 75-80.
 52. **Coughlin PA**, Kester RC. Exercise Training: Its Effects In Patients With Intermittent Claudication. Qatar Medical Journal 2000; 9(1): 9-14.
 53. Wijesinghe LD, **Coughlin PA**, Gill K. An Unusual Cause Of Femoral Embolus. Cardiovasc Surg 2000 Jun 1;8(4):287-288.
 54. **Coughlin PA**, Kester RC. The Management Of Raynauds Phenomenon. Prescriber 2000; 11(6): 43-50.
 55. **Coughlin PA**, Kester RC. The Role Of Percutaneous Transluminal Angioplasty In The Management Of Intermittent Claudication. Ippocrate 1999; 1(3): 159 – 165.
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Book Chapters

1. *Handbook of Infections In Surgery. Ed Professor RC Kester. Science Press Limited. 2000.*
 - Chapter 2: Risk Assessment and Risk Factors.

2. *Textbook of Hepatology: From Basic Science to Clinical Practice, Third Edition. Eds: Juan Rodés, Jean-Pierre Benhamou, Andres T. Blei , Jürg Reichen, Mario Rizzetto. Blackwell Publishing Ltd. 2007.*
 - Chapter 24.4: Hepatobiliary Trauma. K. Raj Prasad, Patrick A. Coughlin and Giles J. Toogood

3. *Essential Surgery, 5th Edition. Ed: Clive Quick et al. Churchill Livingstone. 2013.*
 - Chapter 40: Pathophysiology, clinical features and diagnosis of vascular disease affecting the limbs
 - Chapter 41: Managing lower limb arterial insufficiency, the diabetic foot and major amputations
 - Chapter 42: Aneurysms and other peripheral arterial diseases
 - Chapter 43: Venous disorders of the lower limb

4. *The Oxford Specialist Handbook of Vascular Surgery (2nd edition), Ed. Linda Hands and Matt Thompson. Oxford University Press.*
 - Chapter 14. Infringuinal revascularization
 - Chapter 17. Surgical Revascularization of the Kidneys
 - Chapter 18. Revascularization of the gut
 - Chapter 20. Vascular trauma

5. *Evidence Based Management of the Diabetic Foot. Eds. Hinchliffe, Thompson, Schaper, Tripathi, Timaran. JP Medical Ltd.*
 - Chapter 14. Diagnosis of PAD.

Book Chapters Awaiting Publication

6. *The Oxford Textbook of Vascular Surgery, edited by Professor Matt Thompson. Oxford University Press.*
 - Chapter 3. Vascular Tumours.
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Prizes and Awards

- 2015 Best peripheral paper prize. British Society of Endovascular Therapy AGM.
 - 2015 Norman Williams Prize. Society of Academic and Research Surgery (SARS) AGM.
 - 2014 East of England Vascular Surgical Group. Best Presentation.
 - 2013 East of England Vascular Surgical Group. Best Presentation.
 - 2013 Royal Society of Medicine Alpine Meeting. Best Paper.
 - 2010 Yorkshire Vascular Surgical Society. Best Paper.
 - 2010 ASiT-Rouleaux Club Prize. Best vascular surgery abstract.
 - 2007 Yorkshire Vascular Surgical Society. Best Clinical Paper.
 - 2006 Leeds Regional Surgical Club. Best Paper.
 - 2004 Yorkshire Vascular Surgical Society. Best Clinical Paper.
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Research Grants

Awarded

- 2015 Royal College of Surgeons of England. 1 year Research Fellowship . (Chowdhury / Rudd / Coughlin) £50, 000.00.**
This research fellowship has helped fund the start of Mr. Mo Chowdhury PhD thesis entitled “Multi-modality imaging to determine the role of calcification and inflammation on restenosis rates following lower limb angioplasty”.
- 2014 The George Davies Early Career Award. (PI Coughlin) £100,000.00.**
This early career grant was awarded by competitive interview to allow further analysis of the role of inflammation and calcification in patients with lower limb ischaemia.
- 2014 Dunhill Medical Trust. Pump Priming Award. (PI Coughlin) £9,800.00**
This pump priming allowed feasibility data to be produced on the role of PET CT imaging using tracers for both inflammation (18F FDG) and calcification (18F NaF) in patients with lower limb arterial disease.
- 2011 Royal College of Surgeons of England Pump Priming Grant. (PI Coughlin.) £8,500.00.**
This pump-priming grant has allowed initial assessment of the effect of lower limb ischaemia on the electron transfer chain within mitochondria of skeletal muscle (gastrocnemius). This is in collaboration within Dr. Andrew Murray (RCUK Academic Fellow and University Lecturer, Department of Physiology, Development and Neuroscience, University of Cambridge).
- 2007 Royal College of Surgeons of England / Dunhill Medical Trust Research Fellowship. The effect of intervention on balance in older patients with claudication. (PI Coughlin). £50,000.**
This fellowship was awarded by the RCEng to fund a clinical lectureship post within the Academic Vascular Unit at the University of Hull, allowing 50% of my time to be devoted to academic work. This was a novel use of a fellowship from the RCEng and allowed initial patient recruitment, successful grant application and assembling of a research team. The output from this and associated grants included three higher degrees and seven peer reviewed publications.
- 2007 Bupa Foundation Medical Research Grant. Biomechanical variables that influence performances of daily tasks in patients with lower limb ischaemia. (PI Coughlin). £88,537.00.**
This successful grant application was solely put together by myself and was key in assembling my research team. This permitted appointment of a full time clinical research fellow as well as funding two MSc students within the Department of Sport, Health and Exercise Science at the University of Hull, a key collaborator for this study.
- 2007 Royal College of Surgeons of Edinburgh. The Identification Of Biomechanical Factors That Predict Balance Deficiencies In Patients With Lower Limb Ischaemia. (PI Coughlin). £3,000.**
This pump priming grant helped fund patient transport and other consumables for the studies looking at physical deficiencies in patients with intermittent claudication.

1999 Mason Medical Research Foundation Medical Research Grant. Platelet neutrophil conjugate formation in lower limb ischaemia. (PI Coughlin). £1,430.90

This grant allowed for early pilot studies to be performed examining the role of platelet neutrophil conjugate formation alongside markers of platelet activation (P-Selectin) and neutrophil activation (CD11b) in patients with lower limb ischaemia. This work was presented in the Patey Prize session in Cardiff in 2000.

1999 Northern and Yorkshire Research and Development Small Grant Award. Platelet neutrophil conjugate formation in lower limb ischaemia. (PI Coughlin). £4,270.40

This grant allowed for early pilot studies to be performed examining the role of platelet neutrophil conjugate formation alongside markers of platelet activation (P-Selectin) and neutrophil activation (CD11b) in patients with lower limb ischaemia. This work was presented in the Patey Prize session in Cardiff in 2000.

Research Supervision

Since 2007, I have successfully supervised 2 MSc students and 1 MD student. I am also currently supervising a PhD student.

2007 Mr. Alistair Jordan. MSc (University of Hull). Gait and balance assessment in individuals with intermittent.

This was the first higher degree that I supervised. Alistair has gone on to complete a PhD and is currently a lecturer in Sports and Exercise Sciences at Leeds Trinity University specialising in biomechanics and the physiology of training.

2010 Miss Stephanie King. MSc (University of Hull). The effect of angioplasty and a supervised exercise programme on gait in patients with intermittent.

Stephanie is currently undertaking a PhD investigating the musculoskeletal profile and functional ability of the calf in patients with peripheral arterial disease.

2012 Miss Katherine Mockford. MD (University of Hull). The effect of angioplasty and a supervised exercise programme on physical ability in patients with intermittent claudication.

Katherine was the first surgical trainee supervised. She is now on the higher surgical training programme in the Yorkshire deanery.

2015 Mr. Mo Chowdhury. Currently working towards a PhD
