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Curriculum Vitae

With specific reference to Venous Thromboembolism

AWARDS on VTE

- o Visiting Professor Australian Orthopaedic Association 2015-10-16
- o Professorial Fellow, University of Southampton 2013
- o Honorary Professorial Fellow, University of Southampton 2013
- o Hunterian Professor, Royal College of Surgeons 1998 (VTE in Orthopaedics)
- o SUHT Exemplar status 2010 for VTE prophylaxis
- o Robert Jones Gold Medal (*Proxime Accessit*) 1996, British Orthopaedic Association
- o Visiting Senior Lecturer University of Manchester 2012



HIGHER DEGREE on VTE

MD, University of Bristol, October 1995
Degree by original research and dissertation
Deep Vein Thrombosis after Total Hip Replacement

COMMITTEES on VTE

- NICE MT196 Technology Appraisal Expert 2013-4 The GEKO device for reducing the risk of venous thromboembolism
- International Consensus Statement 2011-12- Orthopaedic Editor
- NIH Thromboprophylaxis Project, Baltimore Nov 2011.
- NICE Orthopaedic Guideline Development Group June 2008-Jan 2010
- Orthopaedic Advisory Board, Johnson and Johnson 2008- 2009
- DOH Venous Thromboembolism Independent Expert Working Group 2006-7
- Chairman, International Surgical Thrombosis Forum Guidelines Committee 2005-7
- Editorial Member, International Consensus Statement Committee on Prevention of Venous Thromboembolism 1996, 2000, 2005
- Editorial Board, Journal of Bone and Joint Surgery 2005 -
- Witness, Parliamentary Select Committee on Thromboembolism, Dec 2004
- Foundation member, INATE UK (INvestigators Against ThromboEmbolism) 2005
- Chairman, BOA Thromboembolism Conference, Sept 2003
- Chairman, Scientific Committee, Glory (International Orthopaedic Registry) 2003-6
- Thromboprophylaxis Advisory Boards (Various), 2000-2005



- THRIFT 2 Panel, Steering Committee 1996-1997
- Co-opted member of the British Orthopaedic Association Guidelines and Outcomes Committee, to advise on DVT prophylaxis 1994-1995

JOURNAL WORK

- Editorial Board member, *Bone and Joint Journal* 2015-date
- Section Editor, *Annals Royal College of Surgeons* 2010-date
- Editorial Board Member, *Journal of Bone and Joint Surgery* 2005-2009
- I have reviewed papers concerning thromboembolism for the *Journal of Bone and Joint Surgery*, *Hip International*, *Clinical Orthopaedics*, *Injury*, *Thrombosis Haemostasis*, *Lancet*

Grant application reviews:
HTA, Scottish Executive

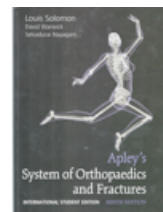
Advisor, BOA "Primary Total Hip Replacement: a guide to good practice" Published 2006

PRESENT RESEARCH on VTE

- Electrical stimulation in the prevention of VTE
- Root Cause analysis in the investigation of Orthopaedic VTE

BOOKS including VTE

- Solomon L, Warwick D, Nayagem D 2014 *Apley and Solomon's Concise System of Orthopaedics* Fourth Edition , CRC Press Florida 2014
- Solomon L, Warwick D, Nayagem D *Apley's System of Orthopaedics and Fractures* 9th Edition 2010
- Perry D, Warwick D, Gozzard D. *Thromboprophylaxis with Low Molecular Weight Heparins* (2nd Ed), London, Current Medical Group. 2011. pp78



BOOK CHAPTERS on VTE

- **Thrombosis in Orthopaedic Surgery** (Ed Ilau, Springer, 2013)
 - *Mechanical Prophylaxis*
- **European Surgical Orthopaedics and Traumatology** Ed Bentley Springer (2014) ISBN 978-3-642-34745-0
 - *Thromboprophylaxis*
- **Oxford Textbook of Orthopaedics**, (Ed Bulstrode et al OUP, Oxford, 2011)
 - *Thrombosis*

- Improving Outcomes after Hip Fracture (Ed Waddell J, Dec 2010. Elsevier, Philadelphia)
 - *Thromboprophylaxis*
- The Knee Insall and Scott Elsevier, Philadelphia 2012
 - *Thromboprophylaxis- the European perspective*
- Oxford Textbook of Orthopaedics and Trauma (2007. Oxford University Press)
 - *Venous Thromboembolism*
 - *Tendon Disorders*
 - *Wrist Arthritis*
- Thromboprophylaxis with Low Molecular Weight Heparins (2nd Ed Perry D, Warwick D, Gozzard D.), London, Current Medical Group. 2011. pp78
- *Thromboprophylaxis with Low Molecular Weight Heparins* Perry D, Warwick D, Gozzard D., London, Current Medical Group. 2006. pp56

PUBLICATIONS on VTE

2015

- Warwick D, Sheik A, Stokes M, Bain D, Gadola S, Gadola S *Microcirculation in the foot is augmented by neuromuscular stimulation via the common peroneal nerve in different lower limb postures: a potential treatment for leg ulcers* International Angiology 2015

2014

- Roberts D, Warwick D. *Venous thromboembolism following hand, wrist and elbow surgery - A review of the literature and prophylaxis guidelines.* Journal of Hand Surgery 39;. 306 - 312

2013

- Nicolaides et al *Prevention and Treatment of venous thromboembolism International Consensus Statement* International Angiology 2013 April;32(2)111-260
 - I wrote the orthopaedic section European version
- Nicolaides A, Hull RD, Fareed J. *Prevention and treatment of venous thromboembolism: international consensus statement (guidelines according to scientific evidence).* Clin Appl Thromb Hemost. 2013 19:116-8.
 - I wrote the orthopaedic section European version
- Warwick D, J A. Shaikh, S. Gadola, M. Stokes, P. Worsley, D. Bain, A. T. Tucker, S. Gadola *Neuromuscular electrostimulation via the common peroneal nerve promotes lower limb blood flow in a below-knee cast* Bone Joint Res 2013;2:179–85.
- Warwick D, Dewbury K, Forrester A. *Intermittent pneumatic compression. A comparison of femoral vein velocity with five different devices* Angiol. 2013 Aug;32(4):404-9.

2012

- Warwick D (2012) *Prevention of Venous Thromboembolism in Total Knee and Hip Replacement* Circulation 125:2151-2155

- Kakkos S, Warwick D, Nicolaides A, Stansby G, Tsolakis I. Combined (Mechanical and Pharmacological) Modalities for VTE Prevention in Joint Arthroplasty. *J Bone Joint Surg (Br)* 94B: 729-34
- Anderson FA Jr, et. al *Prevention of venous thromboembolism after hip or knee arthroplasty: findings from a 2008 survey of US orthopedic surgeons.* *J Arthroplasty.* 2012 May;27(5):659-66 (Collaborating Author)

2010

- Warwick D, Roschensher N. *The "Critical Thrombosis Period" in Major Orthopedic Surgery: When to Start and When to Stop Prophylaxis* *Clinical and Applied Thrombosis/Hemostasis.* Volume 16 Number 4 July/August 2010 394-405
- **Warwick D**, Agnelli G, Friedman R, Cushner F, Fitzgerald, G, Gallus A. *Lessons Learned From the Global Orthopaedic Registry (GLORY): Study Design, Current Practice Patterns and Future Directions* *Am J Orthop.* 2010 Sep;39(9 Suppl):29-33.
- Cushner F Agnelli G, FitzGerald G, **Warwick D.** *Complications and Functional Outcomes After Total Hip Arthroplasty and Total Knee Arthroplasty: Results From the Global Orthopaedic Registry (GLORY)* *Am J Orthop.* 2010 Sep;39(9 Suppl):22-28.

2008

- **Warwick DJ**, Dewbury K 2008. *A novel approach to mechanical prophylaxis: calf impulse technology mimics natural ambulation more effectively than sequential calf compression.* *Int J Angiol*; 17 : 197-201
- Millen S, **Warwick D** 2008. *Implementing standards for prophylaxis against venous thromboembolism.* *Hospital Pharmacist* 15, 375-376
- **D. Warwick**, O. E. Dahl, and W. D. Fisher. 2008. *Orthopaedic thromboprophylaxis: Limitations of Current Guidelines.* *J Bone Joint Surg Br*, Feb **2008**; 90-B: 127 - 132.
- Pellegrini VD Jr, Sharrock NE, Paiement GD, Morris R, **Warwick DJ.** 2008 *Venous Thromboembolic Disease after Total Hip and Knee Arthroplasty: current perspectives in a regulated environment.* *AAOS Instructional Course lectures.* 57 : 637-661.

2007

- **D. Warwick**, R. J. Friedman, G. Agnelli, E. Gil-Garay, K. Johnson, G. FitzGerald, and F. M. Turibio 2008. *Insufficient duration of venous thromboembolism prophylaxis after total hip or knee replacement when compared with the time course of thromboembolic events: Findings from the GLORY Global Orthopaedic Registry.* *J Bone Joint Surg Br*, Jun **2007**; 89-B: 799 - 807.
- **Co-contributor** *Report of the independent expert working group on the prevention of venous thromboembolism in hospitalised patients* Department of Health 2007
- Cohen A, Skinner J, **Warwick DJ** Brenkel I. *The use of graduated compression stockings in association with fondaparinux in surgery of the hip.* *J Bone Joint Surg* 2007;89B:887-892
- **Warwick DJ** *DVT Prophylaxis in Orthopaedic Surgery.* *European Musculoskeletal Review* 2007 48-50

2006

- **Co-contributor** *International Consensus Statement International Angiology* 2006

Prior to 2006

- **Warwick DJ.** *New concepts in Orthopaedic Thromboprophylaxis* *J Bone Joint Surg* 2004;86B:788-92
- **Warwick DJ** *Venous Thromboembolism following major orthopaedic surgery: does it really matter?* *Thrombosis and Haemostasis*, January 2004 (supplement)
- **Warwick DJ** *Venous thromboembolism following orthopaedic surgery- does it really matter?* *Thrombosis and Haemostasis*, Jan 2004, 10-12

- **Warwick DJ.** *Post-operative thromboprophylaxis- an orthopaedic surgeon's view.* Current Haematology Reports 2003;2:411-416
- **Warwick DJ.** Current concepts in thromboprophylaxis following hip fracture. Current Orthopaedics 2003, 17:215-222
- **Warwick D,** Pandit H, Shewale S, Sulkin K. *Should stockings be used with the AV Impulse system?* J Arthroplasty 2002;17:446-448.
- **Warwick D,** Harrison J, Whitehouse S, Mitchelmore A, Thornton M. A randomized comparison of a foot pump and low molecular weight heparin in the prevention of deep vein thrombosis after total knee replacement. J Bone Joint Surg 2002;84B:344-350
- **Warwick DJ** *Thromboembolism in Orthopaedics-Observation and experiment.* Ann R Coll Surg Eng 2002;84:118-121
- **Warwick DJ,** Samama MM. *The contrast between radiological and clinical outcomes in orthopaedic thromboembolism.* J Bone Joint Surg 82B.2000
- International Consensus Statement International Angiology, 20:1-37 2001
- Gillespie W, Gregg P, Murray D, **Warwick DJ.** *Thromboprophylaxis in Orthopaedic Surgery.* J Bone Joint Surg (2000) 82B.
- THRIFT Consensus Group. *Risk of and prophylaxis for venous thromboembolism in hospital patients.* Phlebology (1998)13:87-97
- **Warwick DJ,** Harrison J, Glew D, Mitchelmore A, Peters T, Donovan JA *randomised trial comparing a Foot Pump with low molecular weight heparin in the prevention of deep vein thrombosis after total hip replacement.* J Bone Joint Surg (American), 1998;80A:1158-1166
- **Warwick DJ,** Whitehouse S. *Clinical thromboembolism after Total Knee Replacement.* J Bone Joint Surg 1997; 79B:780-786
- **Warwick DJ.** *Prophylaxis in Orthopaedics.* Clinical Risk 1997;3:103-108
- Harrison J, Warwick DJ, Coast J. *Economics of prophylaxis in Total Hip Replacement Surgery.* Pharmacoeconomics 1997;12:30-41
- Ansari S, **Warwick DJ,** Newman JH, Ackroyd CE. *Fatal pulmonary embolism after knee replacement.* J Arthroplasty 1997;12 (6):509-602
- **Warwick DJ,** Perez JV, Vickery C, Bannister GC. *Chronic venous insufficiency after total hip replacement.* J Arthroplasty 1996;11:529-533
- Weale AE, **Warwick DJ,** Durrant N. *Is there a clinical interaction between low molecular weight heparin and non-steroidal analgesics after total hip replacement?* A Royal Coll Surg 1995;77:35-7.
- **Warwick DJ,** Williams MH, Bannister GC. *Death and thromboembolic disease after total hip replacement without routine use of chemical prophylaxis.* J Bone Joint Surg 1995;77:6-10
- Perez J, **Warwick DJ,** Case CP, Bannister GC. *Death after femoral neck fracture - an autopsy study.* Injury 1995;26:237-240
- **Warwick DJ,** Glew D, Mitchelmore AE, Bannister GC. *Peri-operative low molecular weight heparin- is it effective and safe?* J Bone Joint Surg (Br) 1995; 77B:715-8
- **Warwick DJ,** Thornton MJ, Freeman S, Bannister GC, Glew D, Mitchelmore AE. *Computerised strain gauge plethysmography in the diagnosis of symptomatic and asymptomatic venous thrombosis.* British Journal of Radiology 1994;67:938-40
- **Warwick DJ,** Martin A, Glew D, Bannister GC. *Measurement of femoral vein blood flow during total hip replacement. Duplex ultrasound with and without the use of a foot-pump.* J Bone Joint Surg, 1994;76-B:918-921.

PUBLICATIONS SUBMITTED

Root cause analysis in Orthopaedic VTE Benjamin S and Warwick D

INTERNET PUBLICATIONS

Warwick D Hand Society VTE Guidelines

<http://www.bssh.ac.uk/education/guidelines/vteguidelines>

Warwick D 2010 Supplementary opinion on "Venous Thromboembolism Following Prolonged Cast Immobility For Achilles Tendon Injury" JBJS.org

Warwick D Reading List: thromboprophylaxis/JBJS.org.uk/misc/RLthromboprophylaxis.dtl

Warwick D Supplementary opinion on "prophylaxis of DVT in fractures below the knee " JBJS.org.uk 2009

CONTRIBUTING AUTHOR

2010

Treasure et al *Developing guidelines for venous thromboembolism for The National Institute for Clinical Excellence Involvement of the orthopaedic surgical panel* J Bone Joint Surg [Br] 2010;92-B:611-16.
(Member of NICE panel)

2008

Friedman RJ, Gallius AS, Cushner F, Fitzgerald G, Anderson R et al 2008
Physician compliance with guidelines for deep vein thrombosis prevention in total and knee arthroplasty. Current medical Research and Opinions 24: 87-97
(Contributor as Co-Chairman 2003-2007)



OTHER

- JBJS Podcast. 6 recent papers on Thromboembolism. 2010

INVITED LECTURES

- Orthopaedic Thromboprophylaxis, Warsaw June 2015
- Mechanical Prophylaxis Munich Sept 2015
- Orthopaedic Thromboprophylaxis Moscow 2014
- Lecturer Munich 2014 Mechanical Prophylaxis
- Visiting Senior Lecturer Manchester 2012
- Turkish Orthopaedic Association 2011
- International Surgical Thrombosis Meeting, 2006, 2005, 2006,
- Global Thrombosis Meeting 2012, 2011, 2010, 2009
- EFORT 2005, 2007, 2008
- AAOS Instructional Course 2005, 2006, 2007
- Western Indian Orthopaedic Association, 2004
- Italian Vascular meeting, Milan 2004
- EFORT Symposium, Brussels 2004
- EFORT Symposium, Rome 2003
- Girdlestone Meeting, Belfast 2003
- AOA Meeting, Charleston, 2003
- German Orthopaedic Society Munich May 2003
- Arab World Cardiovascular Meeting, Cairo, Oct 2002
- EFORT/German Orthopaedic Society Sep 2002
- Windsor Orthopaedic Society Nov 2002
- BOTA Congress June 2002
- Iranian ICU Congress Jan 2002
- South African Arthroplasty Association May 2002
- Turkish Arthroplasty Association, May 2001
- South African Arthroplasty Association May 2001
- Slovenia, Ljubljana Oct 2001
- 3rd VTE Experts Symposium, Budapest, Sept 2000
- Orthofix Congress, Riva March 2000
- British Society of Haematology Bournemouth March 2000.
- Summer University, Edinburgh, 1999, 1997
- Postgraduate Meetings, Melbourne, Sydney 1998
- Pulmonary Embolism Collaborators Meeting, Sept 1997.

- Royal Society of Medicine May 1997. International Consensus Statement, *Unanswered questions in thromboprophylaxis*
- Royal College of Surgeons April 1997 . *Prevention of Venous thrombosis and Thromboembolism in Orthopaedic Practice*
- Royal Society of Medicine February 1995. *Why Orthopaedic Surgeons doubt the efficacy of anticoagulants after hip replacement. Thromboembolism after joint replacement without routine prophylaxis.*
- St Georges Postgraduate Programme Feb 1997. *Thromboprophylaxis*
- Oswestry Postgraduate Programme April 1995. *Mechanical thromboprophylaxis. Investigation of thrombosis after joint replacement*
- PEP Collaborators Meeting June 1995. *Thromboprophylaxis*
- South West Anaesthetists Annual Meeting Nov 1995. *Mechanical Prophylaxis and the AV Impulse Foot Pump*
- Leicester Postgraduate Programme May 1996. *Prophylaxis for DVT in Orthopaedic Surgery*
- Paris October 1996. (GETHCAM). *Chronic venous insufficiency after THR; The efficacy of thromboprophylaxis in orthopaedics*

PRIZES

- **Scientific Prize** 1997. South West Orthopaedic Club. Thromboembolism after Total Knee Replacement
- **Robert Jones Gold Medal (Proxime Accesit) 1996.** Deep vein thrombosis after total hip replacement. British Orthopaedic Association
- **Research Travel Awards for Orthopaedic Trainees 1996.** Chronic venous insufficiency after total hip replacement. *Smith & Nephew Surgical*
- **Orthopaedic Residents Prize 1994.** Femoral vein blood flow during total hip replacement. */Smith & Nephew Richards.* For best scientific paper- worldwide competition
- **Scientific Prize 1994.** A short course of low molecular weight heparin. *South West Orthopaedic Club.* For best paper at scientific meeting
- **Gary Hampson Memorial Prize 1994.** The clinical consequences of thromboembolism after hip replacement. *South West Orthopaedic Club*
- **Surgeon in Training Prize 1994 (Runner up).** Death and readmission after total hip replacement. *Rhone Poulenc Rorer*

OTHER

I reviewed the Knee Surgery section of the 2004 ACCP guidelines

Presentations to Learned Societies

* = presenting author, in all other cases, second or later author.

International

- **ISTH May 2009 *Practices in prevention of venous thromboembolism in primary hip and knee arthroplasty (Poster)***
- **AAOS Atlanta 2002. *Foot Pumps- should stockings be used?***
- **EFORT. Brussels 1999: *Low Molecular weight heparin compared with the Foot Pump after total knee replacement.***
- **Combined Meeting of the English Speaking Orthopaedic Associations, Auckland 1998: *Plantar pneumatic compression versus low molecular weight heparin in the prevention of deep vein thrombosis after total hip replacement; Clinical thromboembolism after total knee replacement***
- **EFORT, Barcelona, April 1997: *Plantar pneumatic compression versus low molecular weight heparin in the prevention of deep vein thrombosis after total hip replacement; Clinical thromboembolism after total knee replacement; Patient acceptability and tolerance of intermittent pneumatic plantar compression; Economics of thromboprophylaxis after total hip replacement***
- **International Society for Thrombosis and Haemostasis, Florence, June 1997: *Clinical Thromboembolism after total Knee Replacement; A review of foot pump technology for***

thromboprophylaxis in Orthopaedic surgery; A critical review of prolonged prophylaxis after hip replacement; Patient acceptability and tolerance of intermittent pneumatic plantar compression; Pneumatic plantar compression versus low molecular weight heparin in the prevention of deep vein thrombosis after total hip replacement; Is there a difference between pneumatic plantar compression and low molecular weight heparin in activation of coagulation following discontinuation of thromboprophylaxis?

- **European Orthopaedic Research Society, Munich, July 1995:** Duplex ultrasound of the femoral vein during total hip replacement*; Does total hip replacement predispose to chronic venous insufficiency?; Death and readmission after total hip replacement*
- Is there a clinical interaction between low molecular weight heparin and non-steroidal analgesics after total hip replacement*; The efficacy of a short course of low molecular weight heparin in total hip replacement*
- **EFORT, Munich, July 1995** Death and readmission after total hip replacement*; Duplex Ultrasound of the femoral vein during total hip replacement*; The efficacy of a short course of low molecular weight heparin in total hip replacement*
- **XVth International Congress of the International Society on Thombosis and Haemostasis, Jerusalem, June 1995**
- Death and readmission after total hip replacement*; Duplex Ultrasound of the femoral vein during total hip replacement*; The efficacy of a short course of low molecular weight heparin in total hip replacement*; Is there a clinical interaction between low molecular weight heparin and non-steroidal analgesics after total hip replacement*
- **European Orthopaedic Research Society, London, April 1994** The accuracy of a computerised strain gauge plethysmograph*
- **European Hip Society, Crete, June 1994** The accuracy of a computerised strain gauge plethysmograph in symptomatic patients*. Is there a clinical interaction between low molecular weight heparin and non-steroidal analgesics after total hip replacement*. The efficacy of a short course of low molecular weight heparin in total hip replacement*
- **Orthopaedic Residents Conference, Memphis, Aug 1994:** Duplex Ultrasound of the femoral vein during total hip replacement*
- **Chinese Speaking Orthopaedic Association, Nov 1994:** Death after total knee replacement from pulmonary embolism

National

- **British Orthopaedic Assciation April 1996;** Chronic venous insufficiency after THR
- **British Orthopaedic Association, London, April 1994:** The efficacy of a short course of low molecular weight heparin in total hip replacement*; Death after femoral neck fracture - a forty year experience.
- **British Institute of Radiology Scientific Meeting, Harrogate, May 1994:** The accuracy of a computerised strain gauge plethysmograph in symptomatic patients
- **British Orthopaedic Research Society, Nottingham, Sept 1994:** Is there a clinical interaction between low molecular weight heparin and non-steroidal analgesics after total hip replacement*; Duplex Ultrasound of the femoral vein during total hip replacement*
- **British Orthopaedic Association, Nottingham, Sept 1994:**Death and readmission after total hip replacement*; Duplex Ultrasound of the femoral vein during total hip replacement*; Death after total knee replacement from pulmonary embolism
- **Royal College of Radiologists Annual Scientific Meeting Oct 1994:** Pattern of deep venous thrombosis following total hip replacement compared with that in symptomatic patients.

Regional

- **South West Orthopaedic Club May 1997.** Symptomatic thromboembolism after total knee replacement
- **South West Orthopaedic Club Oct 1994.** Gary Hampson Memorial Lecture*
- **South West Orthopaedic Club, Weymouth, May 1993.** Patello-femoral Arthroplasty*
- **South West Orthopaedic Club, Cardiff, Oct 1993 .** Is there a clinical interaction between low molecular weight heparin and non-steroidal analgesics after total hip replacement*

LETTERS

- Warwick DJ. A randomised comparison (Reply), *J Bone Joint Surg* 2003;83B:619-620
- Warwick DJ, *Proximal thrombosis after THR*. *J Bone Joint Surg (AM)*. Jan 1998
- Warwick DJ. *Thromboembolism in Orthopaedic Trauma*. *Injury* 1997;28:233-244
- Weale A, Warwick DJ, Durrant N. *Is there a clinical interaction between low molecular weight heparin and non-steroidal analgesics after total hip replacement?* *Lancet*, October 1993
- Warwick D. *Antiplatelet thromboprophylaxis after hip fracture*. *J Bone Joint Surg* 1995;77:163
- Warwick D. *Prophylaxis of deep vein thrombosis*. *J Bone Joint Surg* 1995;77:334
- Warwick D. *Femoral vein blood flow during THR*. *J Bone Joint Surg* 1995;77:335-6
- Warwick D, Bannister G, Williams MH. *Death and thromboembolic disease after hip replacement*. *J Bone Joint Surg* 1995;77:664
- Warwick D. *Measurement of femoral vein blood flow during THR*. *J Bone Joint Surg* 1995;77:668
- Warwick D, Freeman MAR. *Differences in mortality after fracture of the hip*. *B Med J* 1995;331:572
- Warwick D. *Perioperative low molecular weight heparin*. *J Bone Joint Surg* 1996;78B:167-8
- Warwick D. *Bone cement and deep vein thrombosis*. *J Bone Joint Surg* 1996;78B:166

GRANTS AWARDED

- **First Kind Medical Sept 2011. £3K** to study use of an electrical device in VTE prevention in Plaster Casts
- **South & West Regional Research Committee.** April 1997. £75000 to investigate Foot Pump Technology after Knee replacement
- **Regional Research Fellowship.** October 1992. £23000 to fund a one year Research Fellowship at Bristol University to study Aspects of Deep Venous Thrombosis After Total Hip Replacement (June 1993 to June 1994), leading to prospective submission of an MD thesis.
- **Wishbone Appeal, British Orthopaedic Association.** November 1991. £20000 to purchase diagnostic tests and equipment for this research.
- **Laming Evans Orthopaedic Fellowship.** September 1992. £2000 to purchase computer equipment to run this research
- **Southmead Health Authority.** December 1993. £2000 to purchase a 35mm camera and to lease an LRR photoplethysmograph for post-phlebotic limb study
- **Wishbone Appeal, British Orthopaedic Association.** March 1995. £8000 to investigate thromboembolic morbidity after total knee replacement.
- **South West Regional Health Authority.** March 1995. £96500 to compare the Foot Pump with Low Molecular Weight Heparin after THR

THESIS SUPERVISION

I have supervised supervising a postgraduate Pharmacist in his successful **PhD** dissertation entitled "Thromboprophylaxis after hip replacement".

October, 15