

CURRICULUM VITAE

SAROJ KUMAR DAS

www.diabetic-foot.org
www.london-vascular-surgeon.com

saroj.das@imperial.ac.uk

Saroj K Das
8 Harvil Road, Ickenham, Uxbridge, UB10 8AJ, UK

QUALIFICATIONS

| | | |
|---------|------|--|
| MBBS | 1978 | Utkal University, India |
| MS | 1980 | All India Institute of Medical Sciences (AIIMS), India |
| MNAMS | 1982 | NBE, India |
| FRCS | 1986 | Royal College of Physicians & Surgeons, Glasgow |
| M Phil | 1996 | National Heart & Lungs Institute, University of London |
| Diploma | 2007 | Laparoscopic Surgery, Strasburg, France |

PRESENT APPOINTMENT

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| 1999 – To date | Consultant Vascular Surgeon, Hillingdon Hospital and Imperial Healthcare NHS Trust, London |
| | Professor, Brunel Institute of Bioengineering |
| | Honorary Senior Lecturer and Director of Clinical Studies, Imperial College of Science, Technology and Medicine, London |

PREVIOUS CONSULTANT POSTS

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| 1994 – 1997 | Senior Lecturer & Honorary Consultant Surgeon Royal Brompton Hospital, National Heart & Lung Institute and Thrombosis Research Institute |
| 1997 – 1997 (4 months) | Visiting Consultant Surgeon Waikato Hospital, Hamilton, New Zealand and Westmead Hospital, Sydney, Australia |
| 1998 - 1999 (1 YEAR) | Consultant Surgeon in Vascular Surgery Frimley Park Hospital, Camberley, Surrey |

FAMILY Married with three children

RESEARCH & TRAINING POSTS

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| 1989 – 1991 | Research Fellow Thrombosis research Trust Kings College School Of Medicine, Denmark Hill, London |
| 1991 – 1994 | Senior Registrar Royal Brompton Hospital, Thrombosis Research Institute, London |
| 1993 | Vascular Fellow at the Oschner Clinic, New Orleans, Scripps Clinic, San Diego, University of San Antonio, Texas, Harbour UCLA, Los Angeles, University of Washington, Seattle and |

Endovascular Training Fellow at Arizona Heart Institute, USA

1995

Endovascular Fellow, Arizona Heart Institute, Phoenix, USA

CERTIFICATES & PRIZES

Certificate of Vascular Stent Training By Johnson & Johnson Interventional Systems Co, USA 1995

Certificate of Merit 1982, College of Surgeons

Unsung Hero of Hospital Doctor 2001.

SCHOLARSHIPS/GRANTS

From
Royal College of Physicians & Surgeons of
Glasgow, British Society of Thrombosis &
Haemostasis
King's Fund for Travelling Bursaries Scheme for
training in endovascular surgery in USA 1993.

From Wellington Foundation, UK
for further training in endovascular surgery
in USA 1995.

MAJOR ACHIEVEMENTS

Pioneering surgery ' Omental transplant' for limb
salvage in diabetic patients.
Featured in BBC News Programme, BBC Tomorrow's
World Programme, and Discovery Channel.
Press Coverage in The Daily Mail and other local
and national media.

Developed a Complex Wound Clinic taking patient
care to the community in the Hillingdon Borough
running successfully for the last 3 years.

MEMBERSHIP OF PRESTIGIOUS SOCIETIES & ORGANISATIONS

Fellow of Edward Diethrich Vascular Surgical Society, Arizona Heart Institute, USA
Vascular Society of Great Britain and Ireland
European Society of Vascular and Endovascular Surgery
International Society of Endovascular Surgery
Society of Academic and Research Surgeons
Royal Society of Medicine
International Society of Thrombosis and Haemostasis
National Academy of Medical Sciences, India
FACULTY – Charing Cross International vascular Symposium
Council Member – Venous Forum, Royal Society of Medicine
Faculty Medecins Sans Frontieres (UK)

RESEARCH EXPERIENCE

(i) False Aneurysms and their management

Over a 3-year period in excess of 8000 angiogram procedures were performed at the Royal Brompton hospital. Thirty-two patients developed False Aneurysm. Colour Duplex Ultrasound was helpful in the diagnosis and management of these patients. The result of this study suggested that most small false aneurysms could be managed conservatively.

Presented to the Vascular Surgical Society, 1992
 Ultrasound Angiography, 1992

(ii) Collaborative study comparing resting Echocardiography with Thallium Stress Test prior to major vascular surgery

Left ventricular long axis function representing the subendocardium is particularly prone to ischaemia. It is often abnormal at rest in patients with coronary artery disease and normalizes with successful angioplasty. It can be studied by long axis M-mode echocardiography at rest. The value of this method in detecting potential myocardial ischaemia was compared with that of adenosine thallium scanning in 33 patients (age 66 ±) with peripheral vascular disease referred for further investigations before surgery. Long axis recordings were made at rest and digitized by computer. 95% confidence limits of normal were defined in 21 (age 51+11) controls. Thallium scan was normal in 9 patients and abnormal in 24, 5 of whom with fixed defects who all had reduced long axis systolic shortening (p<0.001). 19 patients had reversible defects, 18 of which had disturbed early diastolic long axis function (p<0.001). Of the 9 patients with normal thallium 7 had a normal long axis.

Thus long axis M-mode, which can be performed in 5-10 minutes without stress, was 96% sensitive and 79% specific in predicting an abnormal thallium scan in patients with peripheral vascular disease. It may thus have value as a screening test before vascular surgery.

- Presented to the International Angiology April 1995.
- published in Hearts 1998.

(iii) The beneficial effect of successful peripheral revascularization on left ventricular subendocardial function

Left ventricular long axis motion, which reflects the function of the subendocardium, can readily be studied by echocardiography. Diastolic long axis function is impaired both in coronary artery disease and aortic stenosis when it compromises left ventricular filling. It improves with successful angioplasty or valve replacement. To examine the effect of the change in Left ventricular afterload with peripheral vascular surgery, we studied 17 patients before and after aorto-iliac(6 patients) or femoropopliteal (11 patients) surgery. 2D guided M-mode recordings of left ventricular minor axis and long axis were made, along with pulsed Doppler of mitral and aortic flow. The study suggested that falls in left ventricular afterload after successful peripheral vascular surgery is associated with improved diastolic as well as systolic left ventricular function.

Presented to the - Surgical Research Society July 1994
 - Vascular Surgical Society November 94
 - Published in Hearts 1996

(iv) Endovascular procedure combined with distal bypass graft in patients with multilevel disease.

Studies have shown that the long-term result of primary stenting is superior to balloon angioplasty. The result can be improved further by simultaneous correction of inflow or outflow disease by surgery. Such a combined approach is not only convenient for the patient, but also economical. Seventeen patients received a combination of stenting with or without grafting for multi segmental vascular disease.

Patients were followed up at frequent intervals to assess long-term results. The result of this study suggests that simultaneous stenting with vascular reconstruction is a feasible option.

presented to the Vascular Surgical Society of Great Britain & Ireland
 November 1994
 International Angiology April 1995

(v) In situ evaluation of the thrombogenic potential of atherosclerotic and restenotic lesions

Presented to the International Society of Thrombosis & Haemostasis, Israel, June 1995.
Published in Thrombosis & Haemostasis, 2000.

(vi) Mivazerol infusion and perioperative cardiac morbidity - a double blind, placebo controlled study with one concentration of Mivazerol in patients with or at risk of coronary artery disease, undergoing non-cardiac surgery.

An international multicentre study completed

(vii) Prediction of restenosis following vascular bypass procedure by studying the Cytokine and growth factor response in peripheral vascular surgery.

(viii) Tachocomb-H application for haemostasis during peripheral vascular surgery

Study completed

(ix) Intraoperative assessment of changes in after load on left ventricular function by measurement of flow velocity pattern and pressure changes in the ascending aorta during peripheral vascular surgery.

Study completed
Published in Hearts 2001

(X) PROTECT TRIAL - an International multicentre trial to analyse the safety and efficacy of orally administered SNAC heparin compared to Low Molecular Weight Heparin in the prevention of venous thromboembolism following hip replacement surgery.

study completed at the Hillingdon Hospital

(XI) A national audit of facility and practice in the management of leg ulcers.

Study completed at the Hillingdon Hospital
Presented to the R SM (Venous Forum) meeting at Chester, September 2000.

(XII) Ethyl chloride spray prior to injection of local anaesthetic during minor surgical procedures – a double blind randomized controlled trial.

study completed at the Hillingdon Hospital

(XIII) Free omental transplantation as a limb salvage procedure in diabetic patients.

Study in progress at the Hillingdon Hospital.

(XIV) Community Treatment for Venous Ulcer – a clinical trial comparing VAC suction therapy together with intermittent pneumatic compression against compression bandage alone.

Study in progress at the Hillingdon Hospital, Buckinghamshire Chilterns University and Hillingdon PCT.

(XV) Subject specific modeling of Circle of Willis in normal individual and in patients with carotid artery disease.

Study in progress at the Hillingdon Hospital and Brunel University

(XVI) Visual Outcome in Carotid Endarterectomy (VOICE) Study

Study in progress at the Hillingdon Hospital

(XVII) GALA Trial (General Anaesthetic versus Local Anaesthetic in Carotid Endarterectomy Surgery)

Major Participant

Multicentre Trial at The Hillingdon Hospital

(VIII) Need for extended thromboprophylaxis in patients undergoing surgery for colorectal cancer.

(XIX) Oral antithrombotic agent (Apixaban) versus Warfarin in the prevention of venous thromboembolism in patients undergoing total hip replacement – an international multicentre trial (CV 185035).

(XX) Oral antithrombotic agent (Apixaban) versus Warfarin in the prevention of venous thromboembolism in patients undergoing total knee replacement – an international multicentre trial (CV 185047).

(XXI) RE-COVER II – A phase III, randomized, double blind, parallel-group study of the efficacy and safety of oral dabigatran etexilate (150 mg bid) compared to warfarin (INR 2.0-3.0) for 6 months treatment of acute symptomatic venous thromboembolism, following initial treatment (5-10 days) with a parenteral anticoagulant approved for this indication.

(XXII) RE-MEDY – A phase III, randomized, multicentre, double-blind, parallel group, active controlled study to evaluate the efficacy and safety of oral dabigatran etexilate compared to warfarin (INR 2.0-3.0) for the secondary prevention of venous thromboembolism)

(XXIII) Non-invasive assessment of human arterial plaque inflammation by ultrasonic targeted imaging using nano molecular probes.

RESEARCH EXPERIENCE leading to Thesis

I have performed the following research under the guidance of Professor Kakkar, and have been awarded M Phil by the University of London. My examiners were Professor A Mansfield and Professor M Horrock. The chapters in my thesis are as follows:

1. Colour duplex sonography in the diagnosis of acute deep vein thrombosis.
 - A study for the validation of ultrasound criteria in the diagnosis of deep vein thrombosis.
2. Flow augmentation in tibio-peroneal veins during colour duplex sonography by simultaneous use of an AVI foot pump.
 - A study to improve the ultrasound technique for the assessment of venous system.
3. Low molecular weight heparin versus warfarin in the prevention of recurrent thromboembolism.
 - The original and first study to demonstrate the safety and efficacy of LMWH in the prevention of recurrent venous thromboembolism.
4. A prospective rising dose study of low molecular weight heparin in total hip arthroplasty to study the effects on coagulation and fibrinolysis.
 - Drug development testing a different LMWH about its pharmacodynamic and pharmacokinetic profile.
5. A study of long term outcome of treatment following therapy either with heparin or thrombolysis for acute deep vein thrombosis.

I have conducted the following clinical trials while I was a research fellow at the Thrombosis Research Institute.

1. A prospective rising dose study to measure the effects of five regimens of a low molecular weight heparin (LU47311) on coagulation and fibrinolysis in patients undergoing total hip replacement.
2. A prospective, randomised, dose-ranging study to evaluate the safety and efficacy of Dermatan Sulphate (MF701) in preventing deep vein thrombosis following total hip arthroplasty.
3. A prospective randomised study to compare the efficacy of subcutaneous low molecular weight heparin (Fragmin) with oral Coumarin in the prevention of recurrent deep vein thrombosis.

GRANT PROPOSALS

1. Pfizer Grant for One Stop Vascular Clinic Project in 2003
Successful
Awarded £80000.00

2. Sanofi Aventis Grant for One Stop Vascular Clinic Project in 2003
Successful
Awarded £25850.00
3. Bloodless Surgery Fund for London (BSFL) July 2003
Intraoperative Cell Salvage
Successful
Raised £20000.00
4. League of Friends 2004
Introducing endoluminal vascular surgery in the NHS
Successful
Raised £30000.00
5. EPSRC Grant
Applied for with Dr Quan Long of Brunel University in 2007
Unsuccessful
6. Health Technology Assessment
Applied for with Professor David Brodie of Buckinghamshire and Chiltern University
in 2005
Unsuccessful
7. NEAT
Applied for with Dr Quan Long of Brunel University in 2008
Unsuccessful
8. Innovation For Invention
Applied for with Dr Quan Long of Brunel University 30th July 2008
Outcome Pending
9. BMS Grant Proposal: July 2008
Improving the awareness of peripheral vascular disease and minimizing the risk for
atherosclerotic event in the community
Outcome Pending

TEACHING ACTIVITIES

COURSES UNDERTAKEN

At Imperial College

1. Training the Trainers
2. Problem based learning (PBL)
3. Small Group Teaching

At London Deanery

1. Training in Equal Opportunity
2. Modernising Medical Career (MMC) & Foundation Year

At King's Fund, London

1. Management for Consultants
2. Medicine and Law (Lord Wolf's recommendation)

At Hillingdon Hospital

1. Appraisal Process
2. Complex Communication Skill

At Royal College of Surgeons of England

1. Training the Trainers
2. Training and Assessment in Practice

Undergraduate Teaching

1. Director of Clinical Studies (DCS) at the Imperial College Medical School looking after 470 Undergraduate Medical Students at the Hillingdon Hospital. Recognized as one of the best environment for teaching for Imperial medical students
2. Established the Clinical Skill Laboratory for medical student teaching from Imperial College
3. Examiner for OSCE at the Imperial College
4. Examiner for Final MBBS (Surgery) at Imperial College
5. Firm Leader for medical students from Imperial College
6. Group Leader for Patient Contact (PCC) – 3 modules
7. Member of the medical student selection panel at the Imperial College

Postgraduate Teaching

1. Tutor at the Basic Surgical Skill Course at the Raven Department of Education, Royal College of Surgeons of England.
2. Tutor at the BSc. Course at the Imperial College.
3. Tutor at Basic Surgical Skills, The Hillingdon Hospital, Uxbridge, London.
4. Member of Specialist Training Committee, West London Deanery.
5. Member of RITA Panel, West London Deanery
6. Member of the Selection Panel for SPR appointment West London Deanery.
7. Educational & Clinical Supervisor for Foundation Year 1, 2 and Specialist Trainee.

PUBLICATIONS

PEER REVIEW ARTICLES

1. MM Kapur, **SK Das**, AK Sarada, R Sarin

Beta Blockade (Sotalol) in Thyrotoxicosis
Indian Journal of Surgery - June 1982

2. R Sarin, K Verma, BML Kapur, **SK Das**
Tuberculosis of Breast
Indian Journal of Surgery - January 1984

3. **SK Das**, NV Wilson, VV Kakkar
Tomography in deep vein thrombosis.
British Medical Journal 1991; 302: 346-347.

4. NV Wilson, **SK Das**, VV Kakkar, HD Maurice, JG Smibert, EM Thomas, E Nixon
Thrombo-embolic prophylaxis in total knee replacement. Evaluation
of the A-V Impulse System. **Journal of Bone & Joint Surgery 1992; 74-B(1): 50-2.**

5. E Melissari, G Monte, VS Lindo, KD Pemberton, NV Wilson, R Edmondson, **SK Das** and
VV Kakkar.
Congenital thrombophilia among patients with venous thromboembolism. **Blood
Coagulation and Fibrinolysis 1992; 3: 749-758,**

6. VV Kakkar, AT Cohen, RA Edmondson, MJ Phillips, DJ Cooper, **SK Das** et al
Low molecular weight versus standard heparin for the prevention of venous
thromboembolism after major abdominal surgery. **Lancet 1993; 341: 259-65.**

7. RA Edmondson, AT Cohen, **SK Das**, and VV Kakkar. Low molecular weight heparin
versus Aspirin and Dipyridamole (Persantin) following Femoropopliteal Bypass grafting.
Lancet 1994; 344(8927): 914-8.

8. VV Kakkar, AT Cohen, RA Edmondson **SK Das**, DJ Cooper. Letter: Prevention of venous
thromboembolism after major abdominal surgery. **Lancet 1993; 341: 823-824.**

9. AT Cohen, MJ Philip, RA Edmondson, **SK Das** et al
A prospective, randomised, dose-ranging study to evaluate the safety and efficacy of
Dermatan Sulphate (MF 701) in preventing deep vein thrombosis following total hip
arthroplasty. **Thrombosis & Haemostasis, December 1994; 72(6): 793-799.**

10. **SK Das**, AT Cohen, RA Edmondson, E Melissari, VV Kakkar
A randomised trial of Low Molecular Weight Heparin versus Warfarin in the prevention of
recurrent venous thromboembolism. **World J of Surgery 1996; 20: 521-527.**

11. MY Henein, **SK Das**, O'Sullivan, VV Kakkar, D Gibson. The effect of acute alterations in
afterload on left ventricular function in patients with combined coronary artery and
peripheral vascular disease. **Heart 1996; 75: 151-158.**

12. G. Menon, C. Gillbe, JR Pepper, **SK Das**. Aorto-Iliac Occlusion and Rhabdomyolysis
After Coronary Artery Revascularization. **J of Cardiothoracic and Vascular Anaesthesia
1997; 11(2): 242-245.**

13. TD Brow, VV Kakkar, **SK Das**. The significance of Creatine Kinase in cardiac patients
with acute leg ischaemia. **J of Cardiovascular Surgery. 40(5):637-44, October 1999.**

14. MY Henein, **SK Das**, C O'Sullivan, Constantinos Anagnostopoulos, Richard S
Underwood, D G Gibson. Assessment of Cardiac Risk Before Peripheral Vascular Surgery:

A Comparison of Myocardial Perfusion Imaging and Long axis Echocardiography at Rest. **Heart** 1999.

15. M Y Heinein, C Anagnostopoulos, **S K Das**, C O' Sullivan, R S Underwood, D G Gibson. Left Ventricular Long Axis Disturbances as Predictors for Thallium Perfusion Defects in Coronary Artery Disease, **Heart**, 1998; **79**: 295-300.

16. **SK Das**, AT Cohen, RA Edmondson et al. Low-Molecular-Weight Heparin versus Warfarin for Prevention of Recurrent Venous Thromboembolism: A Randomised Trial. **Phlebology Digest** 1997; **9(3)**: 30-31.

17. S Chang, T Brow, **SK Das**
Chronic Leg Pain. **Postgraduate Medical Journal** 1998; **74 (873)**: 431-433.

18. Speers AG, **Das SK**. Extracranial cerebrovascular disease - a management dilemma. **Postgraduate Medical Journal** 1999; **75(888)**: 635-636.

19. Chang S, Brow TD, **Das SK**. Chronic Leg Pain - Problem Solved. **European Journal of Vascular and Endovascular Surgery** 1999; **18(1)**: 89-90.

20. T Brow, **SK Das**, J P Pepper, VV Kakkar
Towards a rational management of concomitant carotid and coronary artery disease. **J of Cardiovascular Surgery**. **40(6)**: 837-44, December 1999.

21. **SK Das**, T Brow, J P Pepper
Continuing controversy in the management of concomitant coronary and carotid artery disease - an overview. **International Journal of cardiology**. **74(1)**:47-65, June 2000.

22. Speer AG, **Das SK**.
Abdominal colic after vigorous exercise in a middle aged man. **Postgraduate Medical Journal**. **76(894)**: 242-3, 252-3, April 2000.

23. Sharan D, Moulton A, Greatrex GH, **Das SK**, Whiteley AM, Srivastava VM. Two-surgeon approach to thoracic outlet syndrome: long-term outcome. **J of the Roy Soc. Medicine**. **92(5)**: 239-43, May 1999.

24. Westmuckett AD, Lupu C, Goulding DA, **Das SK**, Kakkar VV. In situ analysis of tissue factor-dependent thrombin generation in human atherosclerotic vessels. **Thrombosis & Haemostasis**. **844(5)**: 904-11, November 2000.

25. Khir AW, Heinein MY, Koh T, **Das SK**, Parker K H, Gibson DG. Arterial waves in Humans During Peripheral Vascular Surgery. **Clinical Science**. October 2001; 101: 749-757.

26. **Das SK**, Sahoo N, Shanaz M. Experience with Radiofrequency Closure of Varicose Veins (VNUS). **Phlebology** 2005; **20(2)**: 82-86.

27. **Das SK**, Brow TD, Byrom R. Root artery anomalies of the neck presenting in adults – review of the literature with 3 case reports. **European J of vascular and endovascular surgery** 2005; **30**: 48-51.

28. **Das SK**, Vittapali V. Aortic Stenosis and Non-cardiac Surgery. Rapid Response **BMJ** May 2005.

29. **Das SK**, Devdatta Sarwate, JK Mordani, KJ Ng and Mark Nel. Coexisting Abdominal Aortic Aneurysm and Renal Tumour. Interactive Case Report. Case Presentation **BMJ 2006; 332:899**.
30. **Das SK**, Devdatta Sarwate, JK Mordani, KJ Ng and Mark Nel. Coexisting Abdominal Aortic Aneurysm and Renal Tumour. Interactive Case Report. Case Progression **BMJ 2006; 332: 959**.
31. **Das SK**, Devdatta Sarwate, JK Mordani, KJ Ng and Mark Nel. Coexisting Abdominal Aortic Aneurysm and Renal Tumour. Interactive Case Report. Case Outcome **BMJ 2006; 332: 1198-1199**.
32. Atkin G, Round T, Vattipally V and **Das SK**. Common Peroneal Nerve Injury as a complication of Short Saphenous Vein Surgery. **Phlebology** 2006;22(1): 3-7.
33. Qadri F, Atkin GK, Thomas D and **Das SK**. Kikuchi's Disease: an unusual cause of cervical lymphadenopathy – a review. **Clinical Medicine** 2007; 7(1): 82-84.
34. Atkin G, Grieve P, Vattipaly V, Ravikumar K and **Das SK**. The surgical management of aortic root vessel anomalies presenting in adults. **Journal of Vascular Surgery** 2006.
35. **Das SK**. Abdominal Aortic Aneurysm – **Clinical Review**. **GP**; 22.09.2006: 29.
36. Gavin RH Sandercock, Lynette D Hodges, **Saroj K Das**, David A Brodie. The impact of short term supervised and home-based walking programmes on heart rate variability in patients with peripheral arterial disease. **Journals of Sports Science and Medicine** 2007; 6: 471-476.
37. **Das SK**. Management of Abdominal Aortic Aneurysm. Independent Nurse (Clinical Focus), 17 September 2007: 35-36.
38. Preston SD, Southall Ashley RD, Nel Mark, **Das SK**. "Geriatric surgery is about disease, not age". **JRSM** 2008.
39. Peake Simon TC, **Das SK**, Greene S, Dubrey SW. Cocaine 'body packers' and the clinical management of packet rupture. **British Journal of Hospital Medicine** 2008.
40. Luppi L, Long Q, Konig CS, **Das SK**. Study of collateral capacity of the circle of Willis of patients with severe carotid artery stenosis by 3D computational modeling. **Journal of Cerebral Blood Flow and Metabolism** 2008.
41. Gao H, Long Q, Choudhury A, **Das SK**. Study of element based material property finite element method and applications on arterial plaque stress analysis. **Journal of Cerebral Blood Flow and Metabolism** 2008
42. Tammy W.C. Ng, Thorn C, Jennifer Hu, **Das SK**. Have we got a robust scoring system for the diagnosis of pulmonary embolism? Ready for Submission.
43. GALA Trial Collaborative Group. General anaesthesia versus local anaesthesia for carotid surgery (GALA): a multicentre, randomised controlled trial. *Lancet* 2008 Dec 20; 372: 2132-42.
44. Warren Hopkins^{1 2}, Hao Gao¹, **Saroj Das**^{1 2}, Quan Long¹

Carotid wall motion analysis based on B-mode ultrasound images. Journal of Biomechanics 2010.

45. GALA Trial Collaborative Group. GALA: an international multicentre randomized trial comparing general anaesthesia versus local anaesthesia for carotid surgery. *Trials*.2008 May 21; 9: 28.

46. Hao Gao a,b, QuanLong c,n, **Saraj Kumar Das** c,d,1, JustinHalls e, MartinGraves e, JonathanH.Gillard e, Zhi-Yong Li. Study of carotid arterial plaque stress for symptomatic and asymptomatic patients. *Journal of Biomechanics* 44 (2011) 2551–2557.

47. Welman K, Bargiela D, Mtl Choong A, **Das S**. Horner's syndrome: an incidental confounder. *Br J Hosp Med (Lond)*. 2012 Jan;73(1):50-1.

48. T Sarvananthan, **Professor SK Das**. *Thrombosis Simplified*, Phlebology 2012

49. G Phoenix, M Joshi, **S Das**. Management of Cellulitis. *BMJ* 2012.

50. **Das SK**, Patel S, Thorn C. Significance of various clinical risk scoring in the diagnosis and management of pulmonary embolism. Under submission

INVITED ARTICLES

1. Venous Thrombosis and pulmonary embolism. *Surgery*: October 1994

2. Travelling Fellowship Report. College Bulletin, Royal College of Physicians & Surgeons of Glasgow, Oct 1993.

3. ICSM Career Guide 2009 – Vascular Surgery

CHAPTERS IN BOOKS

Case Presentation in the principles of surgery in general 1995.

Edited by P Hornick, P Grace, J Lumley
Butterworth Heineman Publishing

- Management of deep vein insufficiency: post-thrombotic syndrome
- Venous Ulceration

REVIEW OF MANUSCRIPTS

1. Long-term stability of heparin in dextrose-saline intravenous fluids
Journal of Pharmacy & Pharmacology: Sept 1993.

2. Long term results following iliac and femoral angioplasty
Heart 1995

3. Prevention of post-thrombotic syndrome with hydrosmine
Phlebology 1996

4. Omental Pedicled flap for the management of Buerger's Disease

International Journal of Cardiology 1999.

5. Aortic Aortoplasty for the treatment of dilated aorta.
International Journal of Cardiology 1999.

6. Varicose Veins and their management.
British Medical Journal 2006.

7. Impact of steroid therapy on abdominal aortic aneurysms - **Journal of Medical Case Reports 2008.**

8. Staged carotid angioplasty and stenting followed by cardiac surgery in patients with severe asymptomatic CAS - **Nature Clinical Practice Neurology 2008.**

9. Venous Thromboembolism in India – for **National Medical Journal of India 2009.**

10. Review of Ultrasound diagnosis of asymptomatic calf vein thrombosis – **British J of Surgery 2010.**

11. A diabetic foot service established by a department of vascular surgery: an observational study' in the light of referee comments. – **British J of Surgery 2011.**

ABSTRACTS/LETTERS

1. **SK Das**, R Sarin, K Verma

Tuberculosis of Breast

Journal of International College of Surgeons - February 1982.

2. **SK Das**, I William, MH Lewis

Bupivacaine Squirting

Annals of Royal College of Surgeons - 1987

3. **SK Das** and VV Kakkar

Flow augmentation of tibio-peroneal veins by simultaneous use of an AVI foot pump during coloured duplex sonography.

British Journal of Surgery - December 1990

4. **SK Das** and VV Kakkar

Can coloured duplex sonography reliably replace venography in the diagnosis of acute deep vein thrombosis?

British Journal of Surgery - December 1990

5. NV Wilson, **SK Das**, H Maurice, G Smibert, EM Thomas, VV Kakkar

Thrombosis prophylaxis in total knee replacement. Does a simple mechanical method help?

British Journal of Surgery - December 1990

6. **SK Das**, VV Kakkar

Can colour coded duplex sonography reliably replace venography in the diagnosis of acute deep vein thrombosis?

International Journal of Thrombosis and Haemostasis - June 1991

7. **SK Das**, VV Kakkar

Flow augmentation in Tibio-Peroneal veins by simultaneous use of an AVI foot pump during coloured duplex sonography.

International Journal of Thrombosis and Haemostasis - June 1991.

8. **SK Das**, VV Kakkar

A comparative study of coloured duplex sonography, foot volumetry and ascending venography in the assessment of venous disease.

International Journal of Thrombosis and Haemostasis - June 1991.

9. **SK Das**, VV Kakkar

Is thrombolytic treatment out of favour in lower limb venous thrombosis?

International Journal of Thrombosis and Haemostasis - June 1991.

10. **SK Das**, E Melissari, VV Kakkar

Does Low molecular weight heparin (LU 47311) affect the extrinsic pathway?

International Journal of Thrombosis and Haemostasis - June 1991.

11. NV Wilson, **SK Das**, H Maurice, G Smibert, EM Thomas, VV Kakkar

Thrombosis prophylaxis in total knee replacement - a new mechanical device.

International Journal of Thrombosis and Haemostasis - June 1991.

12. NV Wilson, **SK Das**, VV Kakkar

Failure of Dihydroergotamine to improve the results of Low molecular weight heparin prophylaxis against venous thrombosis in hip surgery.

International Journal of Thrombosis and Haemostasis - June 1991.

13. VS Lindo, **SK Das**, E Melissari, KD Pemberton, NV Wilson, VV Kakkar.

A new type of dysplasminogenaemia which emerges during thrombolytic treatment.

International Journal of Thrombosis and Haemostasis - June 1991.

14. E Melissari, **SK Das**, C Kanthou, KD Pemberton, VV Kakkar.

The use of LMW heparin in treating thromboembolism during pregnancy and prevention of osteoporosis.

International Journal of Thrombosis and Haemostasis - June 1991.

15. VV Kakkar, NV Wilson and **SK Das**

Prevention of stasis does not improve efficacy of low molecular weight heparin prophylaxis against major deep vein thrombosis.

British Journal of Haematology - Sept 1990.

16. VS Lindo, **SK Das**, E Melissari, KD Pemberton, NV Wilson, VV Kakkar.

A new type of dysplasminogenaemia which emerges during thrombolytic treatment.

British Journal of Haematology - Sept 1990.

17. E Melissari, **SK Das**, C Kanthou, A Chitolie, VV Kakkar

The use of low molecular weight heparin in treating thromboembolism during pregnancy and prevention of osteoporosis.

British Journal of Haematology - Sept 1990

18. **SK Das**, NV Wilson, NJ Standfield and VV Kakkar.

Low molecular weight heparin in the prevention of recurrent venous thromboembolism.

British Journal of Surgery - April 1992.

19. **SK Das**, NJ Standfield, E Melissari and VV Kakkar
Thrombolytic Treatment and Post- thrombotic Syndrome.
British Journal of Surgery - April 1992.
20. **SK Das**, NJ Standfield and VV Kakkar.
Management of false aneurysm based on colour duplex sonography.
Ultrasound Angiography 92.
21. **SK Das**.
Colour Duplex Sonography in the application of venous system - Does colour matter!
Ultrasound Angiography 92.
22. **SK Das**, NJ Standfield and VV Kakkar.
False Aneurysm - Is surgery always necessary?
Irish Journal of Medical Science, September 92.
23. VV Kakkar, AT Cohen, RA Edmondson, **SK Das** , DJ Cooper.
Letter - Prevention of venous thromboembolism after major abdominal surgery. Lancet
1993; 341: 823-24.
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29. M Y Heinen, **SK Das**, DG Gibson, VV Kakkar. The effect of Acute alterations afterload
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vascular Disease. The British J of Surgery April 1995.
30. M Y Henein, C Anagnostopoulos, **SK Das**, C O'Sullivan, D Gibson. Screening for
Coronary Artery Disease - Resting Long Axis Echo-Cardiography compared with Thallium
201 Myocardial Perfusion Scanning. International Angiology, March 1995.
31. **SK Das**, M Brooks, VV Kakkar. Intraoperative stenting combined with surgery - a novel
approach. International angiology. March 1995.

32. M Y Heinein, **SK Das**, VV Kakkar, D Gibson. Beneficial effect of successful peripheral revascularisation on Left Ventricular Subendocardial Behaviour. International Angiology March 1995.
33. **SK Das**, E Mellisari, K Sembhi et al. Significance of D-Dimers, F1,2 Prothrombin fragments, and TAT complexes in the diagnosis and management of venous thromboembolism. Journal of the International Society on Thrombosis and Haemostasis. June 1995.
34. C. Lupu, M Scully, **SK Das**, VV Kakkar. Localisation of tissue factor pathway inhibitor (TFPI) in normal and atherosclerotic vessels. Journal of the International Society on Thrombosis and Haemostasis June 1995.
35. AT Cohen, MB Wagner, DJ Gerrad, **SK Das** et al. Risk factors for femoropopliteal bypass graft occlusion following reconstructive surgery. Journal of the International Society on Thrombosis and Haemostasis. June 1995.
36. **SK Das**. Modern management of venous thromboembolism. Journal of Scandinavian and British Society of Phlebology. June 1996.
37. Khir AW, Heinein MY, Koh T, **Das SK**, Parker K H, Gibson DG. Arterial waves in Humans During Peripheral Vascular Surgery. World Congress of Cardiology 1998.
38. Mamman U, Drinkwater S, **Das SK**.
A national audit of facility and practice in the management of leg ulcers. Phlebology 2000.
39. Sahoo N, Shanaz M, **Das`SK**.
Experience with radiofrequency closure of varicose veins(VNUS). Phlebology 2004.
40. Vatipally , Atkin G, **Das SK**
Selective Shunting in Carotid Endarterectomy
International Angiology 2006.
41. Gao H, Long Q, Choudhury A, **Das S**.
Development of an element based material property model and its applications on arterial plaque stress analysis.
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Quantification of 3-D Collagen Distributions on the Human Carotid Arterial Plaque Fibrous Cap.
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43. Choudhury A, **Das S**, Kill I, Long Q. Morphology analyses of human carotid plaque in assessing Fibrous cap rupture risk. Society of academic and research surgery January 2010, London.
44. Verganon L, Hopkins W, Das S, Long Q. Carotid wall motion analysis on B-mode Ultrasound Images. 6th World Congress of Biomechanics, Singapore August 2010

45. Choudhury A, Hopkins W, Das S, Kill I, Long Q. Morphology analysis of human carotid plaque in assessing fibrous cap rupture risk. 6th World Congress of Biomechanics, Singapore August 2010.

46. Gokulan Phoenix, Mohammed, Mohan CR, Das SK. Management and outcomes of direct and tourniquet- associated thromboembolic popliteal artery injuries sustained during total knee arthroplasty: the results of a trans-atlantic survey **INTERNATIONAL SOCIETY FOR VASCULAR SURGERY, FIRST U.S. CONGRESS PROGRAM, March 9-11, 2012. Miami, Florida.**

CONFERENCE PRESENTATIONS

1. Tuberculosis of Breast - at the **23rd International College of Surgeons Conference held at New Delhi, India, February 1982.**

2. Changing trends in the diagnosis and management of Congenital hypertrophic Pyloric Stenosis - at the **Golden Jubilee Conference of Association of Surgeons, India held at New Delhi, India, December 1988.**

3. Thoracic Outlet Compression Syndrome - at the **Golden Jubilee Conference of Association of Surgeons, India held at New Delhi, India, December 1988.**

4. Flow augmentation in Tibio-Peroneal Veins by simultaneous use of an AVI foot pump during coloured duplex sonography - at the **Surgical Research Society, Southampton, England, July 1990.**

5. Can colour coded duplex sonography reliably replace venography in the diagnosis of acute deep vein thrombosis? - at the **Surgical Research Society, Southampton, England, July 1990.**

6. Guest Lecture: Thromboprophylaxis in General Surgery.
- at the **Mansfield District General Hospital, Nottinghamshire, March 1991.**

7. Does LMW Heparin (LU 47311) affect the extrinsic pathway? - at the **7th European congress of the International union of Angiology at Rhodes, Greece, May 1991.**

8. Can colour coded duplex sonography reliably replace venography in the diagnosis of acute deep vein thrombosis? - at the **7th European congress of the International union of Angiology and 3rd Mediterranean congress of Angiology at Rhodes, Greece, May 1991.**

9. A comparative study of coloured duplex sonography, foot volumetry and ascending venography in the assessment of venous disease - at the **7th European congress of the International union of Angiology and 3rd Mediterranean congress of Angiology at Rhodes, Greece, May 1991.**

10. Is thrombolytic treatment out of favour in lower limb venous thrombosis? - at the **7th European congress of the International union of Angiology and 3rd Mediterranean congress of Angiology at Rhodes, Greece, May 1991.**

11. Flow augmentation in Tibio-Peroneal Veins by simultaneous use of an AVI foot pump during coloured duplex sonography - at the **7th European congress of the International union of Angiology and 3rd Mediterranean congress of Angiology at Rhodes, Greece,**

May 1991.

12. Can colour coded duplex sonography reliably replace venography in the diagnosis of acute deep vein thrombosis? - at the **XIIIth congress of the International society on thrombosis and haemostasis at Amsterdam, June-July, 1991.**

13. Does Low molecular weight heparin (LU 47311) affect the extrinsic pathway? - at the **XIIIth congress of the International society on thrombosis and haemostasis at Amsterdam, June-July, 1991.**

14. A comparative study of coloured duplex sonography, foot volumetry and ascending venography in the assessment of venous disease. - at the **XIIIth congress of the International Society on thrombosis and haemostasis at Amsterdam, June-July, 1991.**

15. Flow augmentation in Tibio-Peroneal veins by simultaneous use of an AVI foot pump during coloured duplex sonography. - at the **XIIIth congress of the International society of thrombosis and haemostasis at Amsterdam, June-July, 1991.**

16. Is thrombolytic treatment out of favour in lower limb venous thrombosis? - at the **XIIIth congress of the International society on thrombosis and haemostasis at Amsterdam, June-July, 1991.**

17. Low molecular weight heparin in the prevention of recurrent deep vein thrombosis - at the **Vascular surgical society of Great Britain and Ireland held in Dublin, November 1991.**

18. Low molecular weight heparin in the prevention of recurrent deep vein thrombosis - at the **Surgical Research Society held in London, January 1992.**

19. False Aneurysms - Is surgery always necessary? - presented at **the combined meeting of the Association of Surgeons of Great Britain and Ireland and Trinity College Dublin on the occasion of the Quatercentenary Celebrations held in Dublin, 20-24 September 1992.**

20. Colour Duplex Sonography - Does Colour Matter? An indepth analysis of the application of Duplex in the venous system. **Review Presentation at the Ultrasound Angiography 92, 2nd International Conference held at Southampton from 2nd-4th September 1992.**

21. Management of false aneurysms based on colour duplex sonography - presented at the **Ultrasound Angiography 92, held at Southampton from 2nd-4th September 1992.**

22. Low molecular weight heparin in the prevention of recurrent deep vein thrombosis - at the **Third IBC International symposium on advances in Anticoagulant, Antithrombotic and Thrombolytic drugs at Boston, MA, USA on October 21-23, 1992.**

23. Guest Lecture: **Thromboprphylaxis in high risk surgery.**
- at the **West Cumbria Hospital, Whiteheaven, Dec 10, 1993.**

24. Guest Lecture: **Recent advances in endovascular surgery.**
- at the **West Cumbria Hospital, Whiteheaven, Dec 10, 1993.**

25. **Symposium on Hospital policy for thromboprophylaxis.**

- at the West Cumbria Hospital, Whiteheaven, Dec 10, 1993.

26. Lecture on "Venous Thromboembolism" at the FRCS course, Hammersmith Hospital, March 1994.

27. Lecture on " Haemodynamic assessment in peripheral vascular disease" at the FRCS course, Hillingdon Hospital, January 1993.

28. The beneficial effect of successful peripheral revascularisation on left ventricular subendocardial function. at the Surgical Research Society, Glasgow, July 1994.

29. Intraoperative stenting combined with surgery - a novel approach at the Vascular Surgical Society of Great Britain & Ireland, Edinburgh, November 1994.

30. Intraoperative stenting combined with surgery - a novel approach at the International Angiology, London, April 1995.

31. Study of Plasminogen Activator expression in injured porcine aortic segments in culture. Presented by C Kanthou, SK Das, VV Kakkar, F Lupu. at XI International Vascular Biology Meeting at Seattle, USA, Sept 1996.

32. A national audit on the provision for the management of leg ulcer. Presented to the Royal Society of Medicine Chapter of Phlebology. July 2000.

33. Relationship between aortic pressure, Doppler flow velocity and reflected waves before, during clamping and after unclamping of the aorta. Presented by Khir AW, Koh T, Henein MY, Das SK, Parker K and Gibson DG at the XIIIth world congress of cardiology at Rio de Janeiro on 29th April 1998.

34. 39. Sahoo N, Shanaz M, Das`SK.

Experience with radiofrequency closure of varicose veins (VNUS).

Presented at Venous Forum (Royal Society of Medicine) in Manchester March 2004.

INVITED SPEAKER AND CHAIRING SCIENTIFIC SESSION

1. Combined Scandinavian and British Society of Phlebology Meeting held in Danmark - June 1996

Lecture on Modern Management of Venous thromboembolism

2. Leicester Royal Infirmary - November 1996.

Lecture on Low Molecular Weight Heparin in the treatment of Deep Vein Thrombosis and management of Calf Vein Thrombosis.

3. Chelsea and Westminster Medical School- March 1996.

Lecture on Experience with Low Molecular Weight Heparin in the management of venous thromboembolism during peripartum period.

4. King's College School of Medicine, London - February 1997

Lecture on Management of venous thromboembolism during peripartum period.

5. Guildford Postgraduate Medical Centre, Royal Surrey County Hospital – 10th July 1997.

Lecture on Venous Thromboembolic Disease

6. Westmead Hospital, University of Sydney, Australia – October 1997

Lectures on - Modern management of Venous Thrombo-embolism
- Effect of acute alterations in after-load on left ventricular function in patients with combined coronary artery and peripheral vascular disease.

7. Waikato Hospital, Hamilton, New Zealand (Vascular Surgical Society of New Zealand, North Island) – November 1997

Lectures on: Management of concomitant carotid and coronary artery disease.
Intraoperative stenting combined with surgery for multilevel arterial disease.

8. The Hillingdon Hospital, Uxbridge, Middlesex – September 1999

Lecture on: Carotid Artery disease at the turn of the millenium -
Tiumphs, Controversies and opportunities.

9. Harefield Hospital, Harefield, Middlesex – November 1999.

Lecture on: Management of concomitant coronary and carotid artery disease.

10. West Cumbria Hospital NHS Trust, Barrow-in-Furness – April 2000.

Lecture on: Current management of venous thromboembolism.

11. The Hillingdon Hospital, Uxbridge, Middlesex – June 2000.

Lecture on: Omental Transplantation Procedure for limb salvage in Diabetic Patients -
hope for future.

12. The Hillingdon Hospital, Uxbridge, Middlesex – April 2001.

Lecture on: Management of trauma to neck vessels - at Trauma conference organized
by Accident & Emergency.

13. The Hillingdon Hospital, Uxbridge, Middlesex – June 2001.

Lecture on: Current status of antiplatelet therapy.

14. General Pratifioner Group, Hillingdon – July 2001.

Lecture on: Complications of diabetic foot

15. General Practitioner Group, Harrow – September 2002

Workshop at Northwick Park Hospital on Peripheral Vascular Disease

Lecture on Management of Intermittent Claudication

16. General Practitioner Group, Northwood – May 2003

Workshop on modern surgery at Mount Vernon Hospital

Lecture on Modern management of varicose veins

17. General Practitioner Group, Southall – September 2006

Lecture on – Management of TIA from a surgical perspective

18. Charing Symposium on Management of Intermittent Claudication - 13 June 2006

at Royal College of Surgeons of England, London.

19. Invited Speaker – Management of Carotid Artery Disease – Vascular Workshop at **the SGPGI, Lucknow, India**, 19th November 2007.

20. Invited Speaker – Development of Antithrombotic Agent – Vascular Workshop at the **SGPGI, Lucknow, India**, 19th November 2007.

21. Invited Speaker – Modern management of Abdominal Aortic Aneurysm – Vascular Workshop at **the SGPGI, Lucknow, India**, 19th November 2007.

22. Invited Speaker –‘Management of TIA’ General Practitioner’s Group Northwood January 2008.

23. Lecture on ‘Brain Attack – Dial 999’ – organized by Hillingdon and Mount Vernon Hospital 23rd April 2008.

24. Visiting Professor – Sanjay Gandhi Postgraduate Institute, Lucknow, India – November 2007.

25. Faculty – 32nd Charing Cross vascular Symposium, London 2010

26. Faculty – 33rd charing Cross Vascular Symposium, London 2011

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INTERNATIONAL SOCIETY FOR VASCULAR SURGERY, FIRST U.S. CONGRESS PROGRAM, March 9-11, 2012. Miami, Florida.

28. Faculty – 34th charing Cross Vascular Symposium, London 2012.