

CURRICULUM VITAE

Graham Erskine **VENN**

M.B., B.S., M.S. (Lond), F.R.C.S. (Edin), F.R.C.S. (Eng.), F.I.C.S., F.E.T.C.S

CURRENT APPOINTMENT

Cardiac and Thoracic Surgeon
Guy's & St Thomas' Hospital

Head of Department of Cardiac Surgical Research
Rayne Institute
St Thomas' Hospital

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Personal Details

Address

London Bridge Hospital
27, Tooley St. London SE1 2PR



Date Of Birth	22 nd March 1954
Children	Two
Nationality	British
Insurance	Medical Protection Society No. 371960
Registration	Full August 1978 No.2372978

Education

1964-1972	Dulwich College, London
1972-1977	Middlesex Hospital Medical School, University of London.

Qualifications

MBBS (London)	April 1977
FRCS (Edinburgh)	November 1981
FRCS (England)	May 1982
FICS (Chicago)	May 1990
MS (London)	October 1991
FETCS (Europe)	October 1998

Prizes and Awards

Ronald Edwards Medal, Society of Cardio-thoracic Surgeons of Great Britain and Ireland 1987
Hunterian Professor, Royal College Of Surgeons Of England, 1989
Freeman of the City of London, May 2003

Membership of Learned Societies

British Cardiac Society
European Association for Cardio-thoracic Surgery
European Cardiac Society
British Society for Cardiovascular Research
European Society for Cardiovascular Surgery
The Worshipful Society of Apothecaries of London

Professional and Administrative posts

Regional Specialty Advisor in Cardiothoracic Surgery for the Royal College of Surgeons of England; London (Pan), South East, South West Regions, Kent, Surrey and Sussex

Immediate Past President Royal Society of Medicine; Section of Cardiothoracic Surgery

Honorary Cardiac and Thoracic Surgeon to the British Army

Honorary Senior Lecturer in Cardiac and Thoracic Surgery, University of London

Head of the Department of Cardiac Surgical Research, Rayne Institute, St Thomas' Hospital

Past Clinical Director of Cardio-thoracic Services, Guy's & St Thomas' NHS Trust 1993 -1996

Appointments in Cardiothoracic Surgery

Present Appointment

Jul 1989 - present Cardiac and Thoracic Surgeon, St Thomas' Hospital, London
Past Clinical Director of Cardiothoracic Services, Guy's and St Thomas'
Hospital Trust 1993-1996

Previous Appointments

Apr 1989 - Jul 1989 Staff surgeon in Professor Alain Carpentier's unit at the Hopital
Broussais, Paris.

Mar 1988 - Feb 1989 Senior Registrar to Professor K M Taylor, Messrs R N Sapsford,
R de L Stanbridge, P L Smith, Hammersmith Hospital.

Mar 1987 - Feb 1988 Senior Registrar to Messrs M F Sturridge, T Treasure, P Goldstraw
and D N Ross, Middlesex Hospital

Apr 1986 -Feb 1987 Jules Thorne Neurological Research Fellow, The Middlesex Hospital

Oct 1985 - Mar 1986 Senior Registrar to Mr. E Townsend, M Yacoub, A Rees, Harefield Hospital

Jan 1985 - Oct 1985 Registrar to Mr. P Goldstraw, Brompton Hospital

July 1984 - Dec 1984 Registrar to Mr. S C Lennox, Brompton Hospital

Jan 1984 - June 1984 Registrar to Mr. M Paneth, Brompton Hospital

July 1983 - Dec 1983 Registrar to Mr. J C R Lincoln, Brompton Hospital

Jan 1983 - June 1983 Registrar to Mr. P Goldstraw, Brompton Hospital

Jan 1981 - June 1981 Registrar to Messrs J R Belcher, M F Sturridge and D N Ross,
Middlesex Hospital

Feb 1978 - Nov 1978 House Surgeon to Messrs J R Belcher, M F Sturridge and D N Ross,
Middlesex Hospital

Academic Appointments

Honorary Senior Lecturer in Cardiothoracic Surgery at Guy's and St Thomas' Hospitals, University of London
Examiner for final MB, BS Examiner for Part Three Specialist Fellowship (FRCS) in Cardiothoracic Surgery

Teaching

Honorary Senior Lecturer University of London.

Recognised teacher of the University of London.

Teaching responsibilities for undergraduate students on the UMDS site during varying portions of their training. This is divided between their formal attachments to the Department of Cardiothoracic Surgery as part of their surgical clerkships and as formal revision lectures at the time of final MB examination.

Post-graduate students, both UK and overseas, are taught either when attached to the unit or as part of the formal program for the Final Fellowship Course at St Thomas'.

Recognised examiner of the Intercollegiate Board in Cardiothoracic Surgery.

Clinical Interests and Results

My clinical practice is comprised of both adult cardiac and thoracic Surgery. I have particular interest and expertise in arterial revascularisation in coronary artery disease both on and off pump and have performed over 6000 coronary operations to date

I have a particular interest and extensive experience in mitral valve reconstructive surgery. I trained with Alain Carpentier, the doyen of Mitral Repair, in the late 1980's in Paris and mitral reconstructive mitral surgery currently a major component of my surgical practice. When appropriate I now offer this in conjunction with radio-frequency surgery for atrial fibrillation.

I have initiated and developed the surgical service for those patients with atrial fibrillation at St Thomas' Hospital, offering such surgery to patients at the time of concomitant cardiac surgical operations, particularly mitral valve operations.

I have extensive experience in both elective and acute surgery for disease of the aortic root.

My thoracic surgical practice covers all aspects of pulmonary, mediastinal and chest wall surgery.

The most recent audits of my NHS and private workload and results are appended:

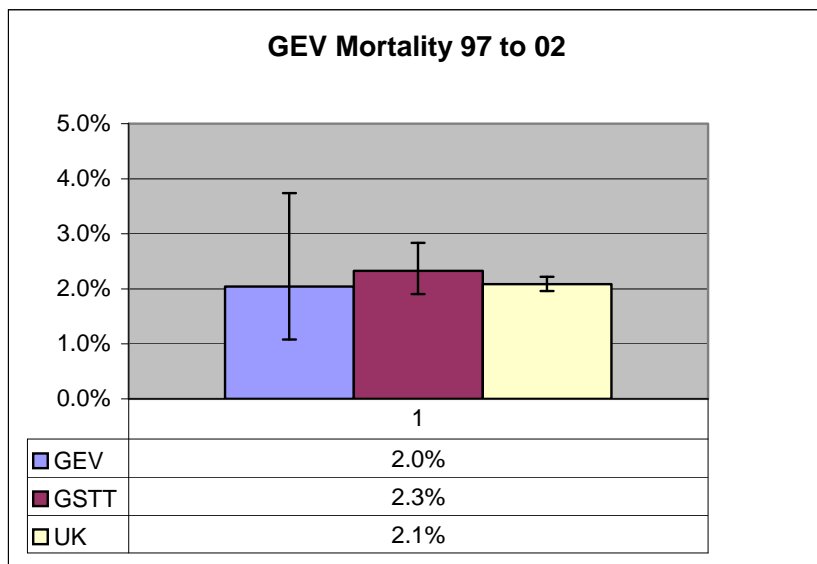
Isolated CABG (NHS)

This is the Society of Cardiothoracic Surgeons of Great Britain and Ireland's index procedure. The most recent audited results (2001 / 2002) show zero percentage mortality (no deaths) in acute NHS practice. The results are better than both the GSTT Trust average and the National figures.

Risk scores

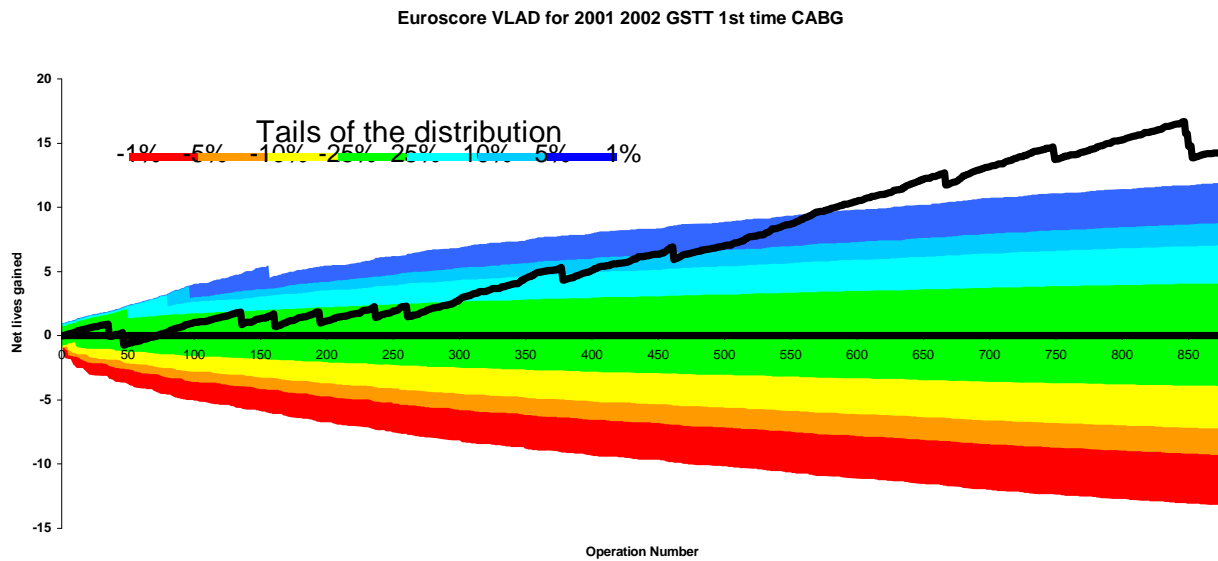
Surgeon	Mortality	Parsonnet	SMR	Unit SMR	Euroscore	SMR	Unit SMR
GEV	0.0	7.97	0	19.7	3.39	0	45.9

Overall 5 year rolling averages



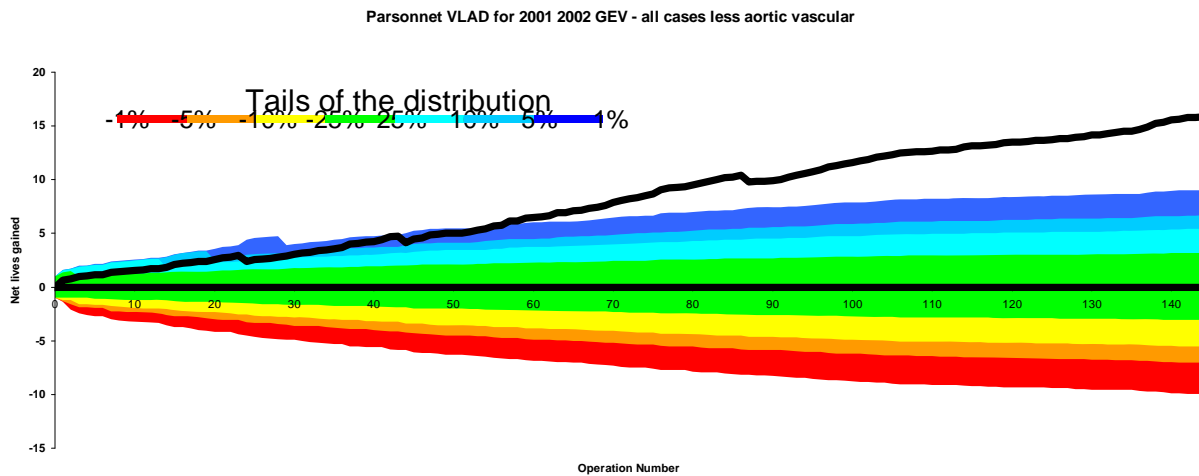
VLAD 'Rocket' analysis for Isolated CABG

Cumulative result analysis detailed in the plot below show a pleasing total of 18 net lives gained during the last year's audited period.



VLAD 'Rocket' analysis for all NHS cases

This similarly shows that when all NHS operation are audited the results show outcomes better than predicted by the risk model with 16 net lives gained



Results in Private Practice

The results in private patients operated on at the London Bridge Hospital during the same time from (2001 / 2002) have shown results better than predicted by the risk models, both Parsonnet and Euroscore.

Isolated CABG 0% mortality in 61 patients
 All other operations 0% mortality in 32 patients

Research Activities

Research in the Cardiac Surgical Research Unit centres around protection to the heart, lungs and brain during cardiothoracic surgery and transplantation (and the associated effects of cardiopulmonary bypass). We combine basic research studies, which are all structured towards taking the findings into the clinical arena, and integrate these with clinical studies which are aimed at improving the result of surgery in cardiac patients.

Basic research studies are divided into 3 areas: (i) enhancing myocardial protective effects of cardioplegia, (ii) long-term preservation studies to extend storage duration of donor hearts and lungs, (iii) investigate inflammatory effects of cardiopulmonary bypass (CPB) and their effect on ischaemia/reperfusion injury. We are characterising a novel analogue of phosphoenolpyruvate (the penultimate substrate of glycolysis, metabolism of which is energy-producing) as an additive to St Thomas' Hospital cardioplegic solution (STH), with progress into Phase 1 clinical trials anticipated within the next year. We have compared the efficacy of the myocardial protective techniques, intermittent cross-clamp fibrillation (ICCF; which is used clinically but has not been validated experimentally) to STH. This has lead us to investigate the protective properties of esmolol (an ultra-short-acting β -blocker, when used as a cardioplegic agent; these studies are on-going and link in with our long-term preservation studies and alternative means of arresting and protecting the heart. We are investigating basic characteristics of ionic changes during ischaemia/reperfusion injury using the technique of X-ray probe microanalysis. We are also collaborating with the Anaesthetics Department and are investigating the protective effect of various anaesthetic agents. In our long-term preservation studies, we continue to examine alternative means of arresting and protecting the stored heart, using drugs that open ATP-sensitive potassium channels, and comparing them to the conventional elevated potassium solutions. Similarly, we are investigating the beneficial effects of phosphodiesterase inhibiting drugs on long-term preservation of the lung, and their potential to improve post-storage recovery of lung function. The inflammatory effects of CPB (in particular the upregulation of P-selectin) are also a major interest since post-ischaemic dysfunction may be related to this response.

Clinically, we continue in our aims of improving protection against the adverse effects of CPB and ischaemia/reperfusion. Continuing a previous study which resulted in a blood-based STH (at a ratio of 1:1, blood:crystalloid) being used in all cardiac operations, we are examining the most efficacious haematocrit ratio (blood:crystalloid) for blood cardioplegia. Our interests also focus on the deleterious effects that CPB can exert on subtle neuropsychological dysfunction in the brain; again, previous studies resulting in operative procedure changes demonstrated a correlation between microemboli and cerebral dysfunction and further studies will compare myocardial and cerebral protection with single aortic occlusion (cardioplegia) to multiple aortic occlusion (ICCF) and minimally invasive surgery (non-CPB) to surgery in which conventional CPB is used.

Our research has benefitted from the allocation of new laboratory space within the Rayne Institute, refurbishment of which has been generously funded by the Special Trustees. Our future research strategy will be to continue to examine areas which are considered a problem in the clinical arena and to address those problems from both the experimental and clinical viewpoint.

We have continued to gain considerable funding for both experimental and clinical studies from external funding agencies such as the British Heart Foundation, The Sir Jules Thorn Charitable Trust, the Wellcome Trust, the St Thomas' Hospital Charitable Foundation, the Garfield Weston Foundation and from the pharmaceutical industry and cardiac surgery equipment industry. Since the establishment of the Cardiac Surgical Research Unit (in 1989) we have obtained grants totalling in excess of £1.2 M and have published over 140 papers and abstracts.

Publications

Peer Reviewed Papers

1. Ralphs DN, Venn G, Khan O, Palmer JG, Cameron DE, Hobsley M. Is the undeniably palpable liver ever 'normal'? *Ann R Coll Surg Engl*. 1983;65:159-60.
2. Pillai R, Venn G, Lennox S, Paneth M. Elective femoro-femoral bypass for operations on the heart and great vessels. *J Thorac Cardiovasc Surg*. 1984;88:635-7.
3. Venn GE, Kay PH, Midwood CJ, Goldstraw P. Open lung biopsy in patients with diffuse pulmonary shadowing. *Thorax*. 1985;40:931-5.
4. Ormiston MC, Seymour MT, Venn GE, Cohen RI, Fox JA. Controlled trial of Iodosorb in chronic venous ulcers. *Br Med J (Clin Res Ed)*. 1985;291:308-10.
5. James SE, Venn GE, Russell RC. Experience using the carbon dioxide laser in the removal of cutaneous tattoos. *Br J Surg*. 1985;72:265-6.
6. Ormiston MC, Seymour MTJ, Venn GE, Cohen RI, Fox JA. A controlled trial of Cadexomer iodine in chronic venous ulcers. *British Medical Journal*. 1986;291:308-310.
7. Venn GE, da Costa P, Goldstraw P. Malignant fibrous histiocytoma presenting in thoracic surgical practice. *Journal of Thoracic and Cardiovascular Surgery*. 1986;91:234-237.
8. Venn GE, Sherry K, Treasure T, Newman S, Harrison M, Ell PJ. Determinants of cerebral blood flow during cardiopulmonary bypass. *Eur J Cardiothorac Surg*. 1987;2:360-364.
9. Venn GE, Sherry K, Klinger L, Newman S, Treasure T, Harrison M, Ell PJ. Cerebral blood flow during cardiopulmonary bypass. *Eur J Cardiothorac Surg*. 1988;2:360-3.
10. Venn GE, Sherry K, Treasure T, Newman S, Harrison M, Klinger L, Ell PJ. Clinical implications of changes in cerebral blood flow during cardiopulmonary bypass. *Perfusion*. 1988;4:271-280.
11. Venn GE, Sherry K, Treasure T, Newman S, Harrison M, Klinger L, Ell PJ. Cerebral blood flow during cardiopulmonary bypass. *European Journal for Cardiothoracic Surgery*. 1988;2:360-363.
12. Venn GE, Williams PR, Goldstraw P. Intracavity drainage for bullous, emphysematous lung disease: experience with the Brompton technique. *Thorax*. 1988;43:998-1002.
13. Venn GE. Cerebral vascular autoregulation during cardiopulmonary bypass. *Perfusion*. 1989;4:105-113.
14. Venn GE, Goldstraw P. Survival following Pulmonary Metastasectomy. *European Journal for Cardiothoracic Surgery*. 1989;2:3105-3111.
15. Klinger L, Newman S, Venn GE, Smith P, Harrison M, Treasure T, Harrison M. Subjective complaints and neuropsychological assessment following coronary artery bypass surgery. *Journal of Psychosomatic Research*. 1989;in press.
16. Blauth C, Griffin S, Harrison M, Klinger L, Newman S, Pugsley W, Smith P, Taylor K, Treasure T, Venn G. Neuropsychologic alterations after cardiac operation. *J Thorac Cardiovasc Surg*. 1989;98:454-5.
17. Newman S, Klinger L, Venn G, Smith P, Harrison M, Treasure T. Subjective reports of cognition in relation to assessed cognitive performance following coronary artery bypass surgery. *J Psychosom Res*. 1989;33:227-33.
18. Venn GE, Sarin S, Goldstraw P. Survival following pulmonary metastasectomy. *Eur J Cardiothorac Surg*. 1989;3:105-9.

19. Jindani A, Neville EM, Venn G, Williams BT. Paraprosthetic leak: a complication of cardiac valve replacement. *J Cardiovasc Surg (Torino)*. 1991;32:503-8.
20. Patel RL, Turtle MR, Chambers DJ, Venn GE. Effect of differing acid-base regulation on cerebral blood flow autoregulation during cardiopulmonary bypass. *Eur J Cardiothorac Surg*. 1992;6:302-6.
21. Patel RL, Turtle MRJ, Chambers DJ, Venn GE. Improved cerebral autoregulation during cardiopulmonary bypass using alpha stat management: middle cerebral artery Doppler characteristics. *Perfusion*. 1993;8:261-262.
22. Patel RL, Newman S, Turtle MRJ, Chambers DJ, Venn GE. The relationship of cerebral blood flow and oxygen consumption during cardiopulmonary bypass with differing acid base regulation. *Perfusion*. 1993;8:139-147.
23. Smolenski RT, Simmonds HA, Garlick PB, Venn GE, Chambers DJ. Depressed adenosine and total purine catabolite production in the postischemic rat heart. *Cardioscience*. 1993;4:235-40.
24. Patel RL, Turtle MR, Chambers DJ, Newman S, Venn GE. Hyperperfusion and cerebral dysfunction. Effect of differing acid-base management during cardiopulmonary bypass. *Eur J Cardiothorac Surg*. 1993;7:457-63.
25. Mehra AP, Black JJ, Aps C, Venn GE, Williams BT. Percutaneous cardiopulmonary bypass for hypothermic cardiac arrest. *Ann Thorac Surg*. 1994;58:1787-8.
26. Venn GE, Patel RL, Chambers DJ. Cardiopulmonary bypass: perioperative cerebral blood flow and postoperative cognitive deficit. *Ann Thorac Surg*. 1995;59:1331-5.
27. Chroni E, Patel RL, Taub N, Venn GE, Howard RS, Panayiotopoulos CP. A comprehensive electrophysiological evaluation of phrenic nerve injury related to open-heart surgery. *Acta Neurol Scand*. 1995;91:255-9.
28. Chambers DJ, Haire K, Morley N, Strumia E, Young CP, Venn GE. Exogenous creatine phosphate, added to St Thomas cardioplegia No 1 (STH1), enhances myocardial protection in valve surgery patients. *Ann Thorac Surg*. 1995;60:868.
29. Galiñanes M, Watson C, Trivedi U, Chambers DJ, Young CP, Venn GE, Hearse DJ. Dichotomy of expression of PECAM-1, CD18 and L-selectin during cardiopulmonary bypass in man. *Circulation*. 1995;92:I-438.
30. Trivedi UH, Timberlake N, Bennywith O, Chambers DJ, Venn GE, Newman SP. The impact of centrifugal and roller pumps in CABG on micro-emboli and neuropsychological outcome. *Perfusion*. 1995;12:67.
31. Patel RL, Turtle MR, Chambers DJ, James DN, Newman S, Venn GE. Alpha stat acid-base management during cardiopulmonary bypass improves neuropsychologic outcome in patients undergoing coronary artery bypass grafting. *Journal of Thoracic and Cardiovascular Surgery*. 1996;111:1267-1279.
32. Patel RL, Turtle MR, Chambers DJ, James DN, Newman S, Venn GE. Alpha-stat acid-base regulation during cardiopulmonary bypass improves neuropsychologic outcome in patients undergoing coronary artery bypass grafting [see comments]. *J Thorac Cardiovasc Surg*. 1996;111:1267-79.
33. Chambers DJ, Haire K, Morley N, Fairbanks L, Strumia E, Young CP, Venn GE. St. Thomas' Hospital cardioplegia: enhanced protection with exogenous creatine phosphate. *Ann Thorac Surg*. 1996;61:67-75.
34. Patel RL, Turtle MR, James DN, Chambers DJ, Newman SP, Venn GE. Improved cerebral protection with alpha-stat bypass regulation following coronary artery bypass surgery. *J Thorac Cardiovasc Surg*. 1996;111:1267-1279.

35. Galiñanes M, Watson C, Trivedi U, Chambers DJ, Young CP, Venn GE. Differential patterns of neutrophil adhesion molecules during cardiopulmonary bypass in humans. *Circulation*. 1996;94:11364-9.
36. Macey MG, McCarthy DA, Trivedi UR, Venn GE, Chambers DJ, Brown KA. Neutrophil adhesion molecule expression during cardiopulmonary bypass: a comparative study of roller and centrifugal pumps. *Perfusion*. 1997;12:293-301.
37. Timberlake N, Klinger L, Smith P, Venn G, Treasure T, Harrison M, Newman SP. Incidence and patterns of depression following coronary artery bypass graft surgery. *J Psychosom Res*. 1997;43:197-207.
38. Trivedi UH, Patel RL, Turtle MR, Venn GE, Chambers DJ. Relative changes in cerebral blood flow during cardiac operations using xenon-133 clearance versus transcranial Doppler sonography. *Ann Thorac Surg*. 1997;63:167-74.
39. Trivedi U, Patel RL, Turtle MR, Venn GE, Chambers DJ. Transcranial Doppler sonography and cerebral blood flow during cardiopulmonary bypass-reply to the editor. *Ann Thorac Surg*. 1997;64:891-892.
40. Ibrahim MF, Venn GE, Young CP, Chambers DJ. A clinical comparative study between crystalloid and blood-based St Thomas' hospital cardioplegic solution. *Eur J Cardiothorac Surg*. 1999;15:75-83.
41. Chukwuemeka AO, Turtle MRJ, Trivedi U, Venn GE, Chambers DJ. A clinical evaluation of platelet function, haemolysis and oxygen transfer during cardiopulmonary bypass comparing the Quantum HF-6700 to the HF-5700 hollow fibre membrane oxygenator. *Perfusion*. 2000;15:479-484.
42. Gray HH, Swanton RH, Schofield PM, Murray RG, Brooksby I, Perrins J, de Belder M, Smith LDR, Hall RJC, Cumberland DC, Venn GE. Joint-Working-Group : Coronary angioplasty: guidelines for good practice and training. *Heart*. 2000;83:224-235.
43. Tambiah J, Venn GE, Powell JT. Detection of Chlamidia Pneumoniae in aortic roots of patients undergoing coronary artery bypass surgery. *submitted to European Journal for Cardiothoracic Surgery*. 2000.

Other Papers

1. Venn GE, Da Costa P, Goldstraw P. Giant Oesophageal Hamartoma. *Thorax*. 1985;40:645-648.
2. Venn GE, Kay PH, Midwood CJ, Goldstraw P. Open lung biopsy in patients with diffuse pulmonary shadowing. *Thorax*. 1985;40:931-5.
3. Venn GE, Goldstraw P. Biopsy of the lung. *Medicine*. 1986;34:1403-1404.
4. Venn GE, da Costa P, Goldstraw P. Intrathoracic malignant fibrous histiocytoma. *Cardology Digest*. 1986;6:6-7.
5. Venn GE, Goldstraw P. The management of inhaled foreign bodies. *Medicine*. 1986;36:1510-1512.
6. Venn GE, Fox A. Leg ulcers. Pointers to management. *Nursing Times*. 1987;83:49-52.
7. Venn GE, Fox JA. The management of venous leg ulcers. In: *Nursing Times*; 1987:49-52.
8. Venn GE, Goldstraw P. Open lung biopsy. *British Journal of Hospital Medicine*. 1988;39:272-3, 276.
9. Wong K, Venn GE, Hershman MJ, Sapsford RN. Rapidly progressive aortic incompetence and coronary artery disease in a patient with Takayasu's disease. *J R Soc Med*. 1989;82:625-6.
10. Venn G, Treasure T. The cerebral complications of coronary artery bypass surgery. *Annals of the Royal College of Surgeons of England*. 1989;71:148.
11. Poston GJ, Grace PA, Venn G, Spencer J. Recurrent near-fatal haemorrhage in von Recklinghausen's disease. *Br J Clin Pract*. 1990;44:755-6.
12. Rao PV, Roussak JB, Hershman MJ, Venn GE, Taylor KM. An unusual left ventricular mass. *J R Soc Med*. 1990;83:650-1.
13. Patel RL, Richards P, Chambers DJ, Venn G. Infective endocarditis complicated by ruptured cerebral mycotic aneurysm. *J R Soc Med*. 1991;84:746-7.
14. Lawson CS, Venn GE, Webb-Peploe MM. Thrombus within a submitral left ventricular aneurysm: diagnosis on cross sectional echocardiography. *Br Heart J*. 1991;66:179-81.
15. Roxburgh JC, Keeling PJ, Venn GE. Acute thrombotic occlusion of a prosthetic valve--treatment with tissue plasminogen activator. *J R Soc Med*. 1992;85:175-6.
16. Harvey DM, Venn GE, Chambers DJ. Transient initial reperfusion with oxygenated cardioplegia: contrasting effects of substrate addition to St Thomas' solutions 1 and 2. *Journal of Molecular Cellular Cardiology*. 1992;24:S16.
17. Black JJ, Aps C, Memra A, Venn GE, Williams BT. Successful resuscitation from hypothermic induced cardiac arrest using cardiopulmonary bypass. *J R Soc Med*. 1993;86:732-3.
18. Wilmshurst PT, Venn GE, Eykyn SJ. Histoplasma endocarditis on a stenosed aortic valve presenting as dysphagia and weight loss. *Br Heart J*. 1993;70:565-7.
19. Kolvekar S, Williams BT, Venn GE. Hypertrophic obstructive cardiomyopathy with LEOPARD (Moynihan's) syndrome: surgical treatment. *J R Soc Med*. 1993;86:115-6.
20. Van Sabben C, Griffin SC, Venn GE. Disc failure in a Bjork-Shiley mitral prosthesis. *Journal of Heart Valve Disease*. 1994;3:581-2.
21. Ibrahim MF, Venn GE, Young CP, Chambers DJ. Additional protection with blood as a component of crystalloid cardioplegia in patients with poor left ventricular function. *Annals of Thoracic Surgery*. 1999:2003.

22. Krasopoulos GS, Ibrahim M, Venn GE. Sclerosing mediastinitis with aortic valve regurgitation and aortic root dilatation. *Journal of the Royal Society of Medicine*. 2000;93:82-83.

Book Chapters

1. Ormiston MC, Seymour MTJ, Venn GE, Cohen RI, Fox JA. A randomised trial of Cadexomer iodine and a standard treatment in out-patients with chronic venous ulcers. In: Fox JA, Fischer H, eds. *Cadexomer Iodine*. Stuttgart: F K Stratauer Verlag; 1983:105-110.
2. Newman S, Klinger L, Venn G, Smith P, Harrison M, Treasure T. The persistence of neuropsychological deficit twelve months after coronary artery bypass surgery. In: Wilner A, Rodewald G, eds. *The impact of cardiac surgery on the quality of life*. New York: Plenum Press; 1990:173-179.
3. Newman S, Klinger L, Venn GE, Smith P, Harrison M, Treasure T. The relationship between complaints and objective assessment of cognitive function following coronary artery bypass surgery. In: Wilner A, Rodewald G, eds. *The impact of cardiac surgery on the quality of life*. New York; 1990:191-199.
4. Venn GE, Goldstraw PG. Curative treatment of metastatic malignant teratoma: Thoracic surgery as an adjunct to chemotherapy for residual disease. In: Alderson AR, Oliver RTD, Hanham IWF, Bloon HJG, eds. *Urological Oncology: Dilemmas and Developments*. Chichester: John Wiley & Sons; 1991:343-350.
5. Venn GE. Cerebral monitoring during cardiopulmonary bypass. In: Yacoub M, Pepper J, eds. *Annual of Cardiac Surgery*. Philadelphia: Current Science; 1991:56-63.
6. Chambers DJ, Haire K, Morley N, Strumia E, Young CP, Venn GE. Anti-arrhythmic effects of creatine phosphate (Neoton) added to St Thomas' cardioplegic solution. In: D'Alessandro LC, ed. *Heart Surgery 1993*. Roma: Scientifica Internazionale; 1993:448-449.
7. Patel RL, Turtle MRJ, Chambers DJ, Venn GE. Cerebral blood flow autoregulation during cardiopulmonary bypass with differing acid base management: Comparison of middle cerebral artery Doppler and isotopic Xenon clearance techniques. In: Utley JR, ed. *14th Annual Cardiothoracic Surgery Symposium*. San Diego: Cardiothoracic Research and Education Foundation; 1994:257.
8. Patel RL, Newman S, Turtle MRJ, Chambers DJ, Venn GE. Alpha stat acid-base management produces improved neuropsychological outcome following cardiopulmonary bypass. In: Utley JR, ed. *14th Annual Cardiothoracic Surgery Symposium*. San Diego: Cardiothoracic Research and Education Foundation; 1994:258.
9. Venn GE. Optimum surgical techniques to reduce cerebral dysfunction during cardiopulmonary bypass. In: Taylor KM, Smith P, eds. *The Brain and Cardiac Surgery*. Oxford: Oxford University Press; 1996.
10. Trivedi U, Venn GE. Bypass equipment: Pumps. In: Newman SP, Harrison MJG, eds. *The Brain and Cardiac Surgery*. Amsterdam: Harwood; 2000:263-274.
11. Callum KG, Sherry K, Whitaker DK, de Belder M, Gray HH, Smith LDR, Treasure T, Venn GE. *Percutaneous Transluminal Coronary Angioplasty: A report of the National Confidential Enquiry into perioperative deaths*. London: NCEPOD; 2000.
12. Newman SP, Harrison MJG, Venn GE. The Brain and Cardiac Surgery. In: *The Brain and Cardiac Surgery*. Royal Society of Medicine: London; 2000.

Abstracts and Letters

1. Venn GE, Williams PR, Goldstraw P. Intracavity drainage for bullous lung disease. *European Journal of Respiratory Diseases*. 1986;69:A 175.
2. Venn GE, Klinger L, Newman S, Harrison M, Ell PJ, Treasure T. The Neuropsychological sequelae of bypass 12 months following coronary artery surgery. *British Heart Journal*. 1987;57:A 565.
3. Venn GE, Sherry K, Treasure T, Newman S, Harrison M, Klinger L, Ell PJ. Cerebral blood flow and arterial CO₂ during cardiopulmonary bypass. *Nuclear Medicine Communications*. 1987;4:A 294.
4. Venn GE, Sherry K, Treasure T, Newman S, Harrison M, Klinger L, Ell PJ. Cerebral blood flow determinants during cardiopulmonary bypass. *British Heart Journal*. 1987;58:A 103.
5. Venn GE, Sherry K, Treasure T, Newman S, Harrison M, Klinger L, Ell PJ. Implications of changes in cerebral blood flow during cardiopulmonary bypass. *Clinical Science*. 1988;75:23-A.
6. Venn GE, Klinger L, Newman S, Harrison M, Treasure T. Intraoperative cerebral monitoring with CFAM predicts neuropsychological outcome following coronary artery surgery. *British Heart Journal*. 1989;61:A-110.
7. Venn G, Treasure T. The cerebral complications of coronary artery bypass surgery. *Annals of the Royal College of Surgeons of England*. 1989;71:148.
8. Smolenski RT, Simmonds HA, Garlick P, Venn GE, Chambers DJ. Nucleotide catabolite release and myocardial contractility after short and prolonged ischaemia. *Journal of Molecular and Cellular Cardiology*. 1991;23 (Suppl V):S104.
9. Safieh B, Venn GE, Ritter MA, Singh S, Buckingham JC, Kendall MD. Plasma Thymulin concentrations in cardiac patients: involvement with the hypothalamic-pituitary adrenal axis. *Proceedings of the Physiological Society*. 1991;438:50P.
10. Patel RL, Turtle MR, Chambers DJ, Venn GE. Improved cerebral autoregulation with alpha stat autoregulation during cardiopulmonary bypass. In: *Cardiac Surgical Research Club*. Royal London Hospital; 1991.
11. Patel RL, Turtle MRJ, Chambers DJ, Newman S, Venn GE. Improved cerebral protection with alpha stat acid-base regulation after coronary artery bypass surgery. *British Heart Journal*. 1992;68:132-A.
12. Chambers DJ, Harvey DM, Venn GE, Hearse DJ. Transient initial reperfusion with oxygenated cardioplegia: contrasting effects of St Thomas' solutions 1 and 2. *European Heart Journal*. 1992;13 (Abstr Suppl):783.
13. Patel RL, Newman S, Turtle MRJ, Chambers DJ, Venn GE. Differing acid-base management: influence of brain hyperperfusion on cerebro-cortical dysfunction after coronary artery bypass surgery. *European Heart Journal*. 1992;13 (Absr Suppl):2233.
14. Harvey DM, Venn GE, Chambers DJ. Transient calcium reduction during early reperfusion: beneficial effects after global hypothermia and multidose cardioplegia. *Journal of Molecular and Cellular Cardiology*. 1992;24 (Suppl V):S93.
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