

## CURRICULUM VITAE

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**NATIONALITY:** British **BIRTHPLACE:** Nottingham  
**DATE OF BIRTH:** 21 February 1957 **AGE:** 51  
**CIVIL STATUS:** Married, with children aged 21, 19, 17 and 14.  
**EDUCATION:** 1969 - 1975 Gillingham Grammar School, Kent.  
 1975 - 1980 Nottingham University Medical School.

**QUALIFICATIONS:** B. Med. Sci. (Hons.), (Nottingham) July 1978  
 B.M.;B.S. (Nottingham) November 1980  
 F.F.A.R.C.S. (London) July 1985  
 D.M. (Nottingham) July 1996

**SPECIALIST ACCREDITATION:** Royal College of Anaesthetists,  
 London, December 1989

**PRESENT APPOINTMENT:** Consultant/Senior Lecturer in Cardiac Anaesthesia (A+B)  
 Southampton University Hospitals NHS Trust (Since 1.11.92)

**PREVIOUS APPOINTMENTS:**

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|--------------------|---|
| 1.10.80 - 31.1.81  | HOUSE SURGEON: Scarborough General Hospital.  |
| 1.2.81 - 31.7.81   | HOUSE PHYSICIAN: Pilgrim Hospital, Boston.  |
| 1.8.81 - 31.1.82   | TRAUMA SURGERY: Nottingham University Hospital.   |
| 1.2.82 - 30.6.83   | SENIOR HOUSE OFFICER IN ANAESTHESIA: Nottingham Group of Hospitals.                         |
| 1.7.83 - 31.8.87   | REGISTRAR IN ANAESTHESIA: University College Hospital, London.                              |
| 1.5.84 - 31.8.84   | REGISTRAR IN ANAESTHESIA: Royal National Orthopaedic Hospital, Stanmore.                    |
| 1.10.85 - 30.4.86  | REGISTRAR IN ANAESTHESIA: The Brompton Hospital, London.                                    |
| 1.5.86 - 30.4.87   | STAFF ANAESTHETIST: Sint Radboud Ziekenhuis, Nijmegen, The Netherlands.                     |
| 1.9.87 - 30.11.87  | STAFF ANAESTHETIST: Goulburn Valley Base Hospital, Shepparton, Victoria, Australia.         |
| 1.12.87 - 31.12.89 | SENIOR REGISTRAR IN ANAESTHESIA: South West Regional Training Scheme, Plymouth and Bristol. |
| 1.1.90 - 31.10.92  | CONSULTANT ANAESTHETIST<br>Western Infirmary, Glasgow.                                      |

## CONSULTANT EXPERIENCE

### *Western Infirmary, Glasgow.*

My main duties were anaesthesia for adult cardiac and thoracic surgery, and cardiac intensive care. I was involved in teaching for all three parts of the Fellowship examination, and for postgraduate and in-service nursing modules. I helped to set up a mentor scheme for the anaesthetic trainees, developed a consultant-led service on the cardiac ITU, and managed the implementation of the Duthie Report in the operating theatres. I ran a pilot of the Association of Cardiothoracic Anaesthetists audit data set on 1000 consecutive cardiac patients, and continued the data collection for my DM degree.

### *Southampton General Hospital.*

This post is an "A+B" appointment with Southampton University, funded by the NHS. I continue to teach for both parts of the Fellowship examination, and also teach undergraduate medical students and supervise their research projects in anaesthesia.

#### NHS duties

My main clinical duties are anaesthesia and intensive care for adult and paediatric cardiac surgery. I was lead Consultant for cardiac anaesthesia from my arrival in Southampton until 2000. During this time I sat on the Cardiac Coordinating Group, developed a consultant-led service on the cardiothoracic intensive care unit, and sat on the project groups which developed the catheter laboratory expansion and cardiac ITU facilities within the Trust. I was member of the Drug Policy Review group in the Trust which produced the current Drug Policy. My current roles in the department and the Trust are:

- Lead consultant for undergraduate education
- Educational supervisor to SpR anaesthetists
- Consultant mentor
- Member of department appraiser panel
- Deputy department representative on Local Negotiating Committee

#### University roles

I have been acting head of the University Department of Anaesthetics since the retirement of Prof J Norman in August 1998, and represent Southampton on the Association of Professors of Anaesthesia at the Royal College. Other work within the School of Medicine includes:

- Fourth Year Study-in-Depth Working Party
- Medical Selection Committee
- Course coordinator, Medicine in Practice 3
- Advisory appointments committees – University representative
- Personal tutor
- Foundation course tutor
- Universities Medical Assessment Partnership: question writer/reviewer

## ASSOCIATIONS AND SOCIETIES

- Anaesthetic Research Society
- Association of Anaesthetists, Great Britain and Ireland
- Association of Cardiothoracic Anaesthetists
- British Medical Association
- European Association of Cardiothoracic Anaesthesiologists
- Society of Cardiovascular Anesthesiologists

I have been a committee member of the Association of Cardiothoracic Anaesthetists (ACTA) since September 2000, and Membership Secretary and Treasurer since January 2004. I am a member of the Audit Committee – we produced a national dataset for cardiac anaesthetic audit in 2002. I was a member of the joint ACTA/BSE working party which set up the national accreditation examinations in perioperative transoesophageal echocardiography in 2003. As Chair of the Training Committee I have undertaken five-yearly surveys of workload and training, which have enabled me to provide advice to the Royal College of Anaesthetists on manpower issues and training in cardiac anaesthesia, and advice on manpower planning to the Department of Health.

#### EDITORIAL WORK

I have been a manuscript assessor for the British Journal of Anaesthesia since 1994. I am an editorial board member of both Annals of Cardiac Anaesthesia and Anaesthesia CPD. I have also reviewed papers for Resuscitation, Acta Anaesthesiologica Scandinavica, and Medical Engineering and Physics.

I am also a grants assessor for the Research Grants Council of Hong Kong, and an assessor for the Accreditation Unit of the Royal College of Nursing.

#### PRIZES AND AWARDS

1984 Steriseal Prize of the North London Group of Anaesthetists for a paper entitled "Cardiac dysrhythmias during oral surgery".

1994 Travel Grant from the Association of Cardiothoracic Anaesthetists

#### INVITED LECTURES

'People to People' cardiothoracic anaesthesia delegation to China, November 1994. Lectures on cerebral oximetry and depth of anaesthesia monitoring.

Indian Association of Cardiovascular Thoracic Anaesthetists, Mumbai, November 1998. "Depth of anaesthesia in cardiac surgery".

British Association of Operating Department Practitioners, Blackpool, May 2000. "Cardiac Anaesthesia – the Phantom Menace".

Indian Association of Cardiovascular Thoracic Anaesthetists, Hyderabad, November 2000. "Neurological dysfunction and management strategies following bypass"

Second Oman International Anaesthesia and Critical Care Congress, Muscat, Oman November 2002. "Awareness in anaesthesia, is it still a problem?" and "Perioperative Transfusion".

Association of Anaesthetists of Great Britain and Ireland, annual Depth of Anaesthesia day seminar: AEP and Entropy – making sense of chaos.

#### CURRENT RESEARCH

##### *Depth of anaesthesia*

My major research interest is in unplanned awareness during surgery and monitoring of the 'depth' of anaesthesia. I am collaborating in a project to examine the use of the auditory evoked response (AER) to measure depth of anaesthesia, in conjunction with Prof Robert Allen and Dr Steven Bell at the Institute of Sound and Vibration Research at the University of Southampton. We are evaluating novel stimulation paradigms and signal processing

techniques to improve signal-to-noise ratio and enable faster generation of the AER, and have recently been awarded an EPSRC grant for this work. We aim to develop on-line computerised assessment of the AER based on artificial neural networks and, potentially, develop control algorithms for clinical anaesthesia using fuzzy logic control of infusion devices.

I have also set up clinical research examining the depth of anaesthesia during cardiopulmonary bypass for cardiac surgery, using Bispectral Index monitoring of the EEG and the AER. We have demonstrated that perioperative changes in the AER predict cognitive changes in patients having cardiac surgery. Our work has also demonstrated the relationship between cardiopulmonary bypass and the requirement for anaesthetic drugs, including the fact that most anaesthetists administer too much anaesthesia during this phase of cardiac surgery. This has potential implications for the immediate postoperative care of the patient, because of the cardiovascular depression caused by anaesthetic agents, but also for the long term outcome in elderly patients, as mortality at one year is directly related to the duration of 'excessive' anaesthesia in patients over 70 years of age.

Another aspect of this work is a collaboration with Prof Eugene Healy in the department of Dermatopharmacology at the University of Southampton. There is evidence that red-haired individuals – or at least those with variant melanocortin-1 receptors – of several species are more resistant to analgesic drugs than their dark-haired counterparts. This is particularly true of the female of the species. One publication has suggested that the same is true for susceptibility to anaesthetic drugs, but this has not been conclusively proven. If true, it raises the prospect of genetic variability in response to anaesthetic drugs, which has a variety of implications for clinical anaesthesia. The other more fundamental question is why hair colour should have anything to do with analgesic potency.

#### *White cell filtration*

This collaboration with Dr Stuart Sheppard, Chief Perfusionist, and Pall Biomedical has examined the clinical effectiveness of white cell filtration during cardiopulmonary bypass in both the laboratory and clinical settings. We have demonstrated that white cell filter technology removes only activated white cells from the circulation, and that clinical benefit accrues from this in those patients with pre-existing lung dysfunction or when the duration of cardiopulmonary bypass exceeds 90 minutes. As part of this research we have studied and validated a method for measurement of exhaled nitric oxide as a marker of pulmonary inflammation.

#### *Cardiac electrophysiology*

Collaboration with Dr John Morgan and Dr Paul Roberts, both cardiac electrophysiologists, examining novel defibrillation methods and methods for ablating aberrant conducting pathways in the large white pig. I provide the anaesthetic expertise, developing the anaesthetic techniques, trouble-shooting equipment, and teaching large animal anaesthesia to the research fellows.

I hold a Home Office Personal Licence under the Animals (Scientific Procedures) Act 1986, number PIL 30/4329.

#### *Higher degree supervision*

Deakin CD. Analysis of thermal changes in patients during hypothermic cardiopulmonary bypass. DM, University of Cambridge 1999.

Sheppard SV. Leucocyte filtration and cardiac surgery. PhD, University of Portsmouth 1999.

Loveman E. Awareness and implicit memory during anaesthesia and the waking state. PhD, Nottingham Trent University, 2000. (Jointly with Dr H van Hooff, Psychology)

Bell SL. Improving acquisition of auditory evoked potentials for clinical diagnosis and monitoring. PhD, University of Southampton, 2003. (Jointly with Prof R Allen, ISVR)

Alexiou C. Leucocyte activation in extracorporeal circuits: Mechanisms of leucodepletion and clinical implications. PhD, University of Portsmouth 2004. (Jointly with Dr SV Sheppard)

Chen QT. Mechanisms of leucocyte filtration and its application during cardiopulmonary bypass. PhD, University of Portsmouth, 2006. (Jointly with Dr SV Sheppard)

Ambler JJ. Comparative study of monophasic and biphasic defibrillation. MD, University of Cambridge, in progress. (Jointly with Dr CD Deakin)

Iyengar S. Cognitive dysfunction by P300 auditory evoked potentials after cardiac surgery with or without cardiopulmonary bypass. PhD, University of Southampton, in progress. (Jointly with Mr SK Ohri)

Sood A. Conventional clicks compared to MLS chirps to acquire the mid-latency AEP. PhD, University of Southampton, in progress. (Jointly with Dr SL Bell, ISVR)

Notley S. Developing a clinical indicator of depth of anaesthesia based on auditory evoked potentials. PhD, University of Southampton, in progress. (Jointly with Dr SL Bell, ISVR)

### *Grants*

Pall Biomedical.

Leucocyte filtration and cardiac surgery.

Awarded: December 1996. Amount: £5000.

Ischemia Research and Education Foundation.

A multicentre study of outcome in patients undergoing cardiopulmonary bypass for coronary revascularisation or valve surgery.

Awarded: February 1999. Amount: \$46,350 over 5 years.

GD Searle, Ref: I93-99-02-035.

Evaluation of parecoxib 40 mg every 12 hours followed by valdecoxib 40 mg every 12 hours in patients who have a coronary artery bypass graft via median sternotomy.

Awarded: January 2000. Amount: \$42,300.

Organon Ltd.

Prospective randomised double blind comparative study of rocuronium and pancuronium in adult patients scheduled for elective "fast-track" cardiac surgery involving hypothermic cardiopulmonary bypass.

Awarded: October 2000. Amount: £5000.

GE Healthcare Technologies.

Comparative evaluation of Entropy, auditory evoked response and Bispectral Index as measures of depth of anaesthesia.

Awarded: 2005. Amount: Equipment donation £28,000, disposables £5000 over three years. Engineering and Physical Sciences Research Council, Ref EP/D505593/1. (PI Dr SL Bell)

Developing a clinical indicator of depth of anaesthesia based on auditory evoked potentials. Awarded 18.10.05. Amount :£159,369.89.

## PUBLICATIONS

### Theses

Smith DC. 1978: B.Med.Sci. Thesis "Anthropometry of Nottingham school children" University of Nottingham.

Smith DC. 1996: DM Thesis "Evoked electromyography during anaesthesia" University of Nottingham.

### Books and Chapters

Smith D. Operations on the pleura, diaphragm and chest wall. In: Ghosh S, Latimer RD (eds) Thoracic Anaesthesia Principles and Practice. Oxford, Butterworth -Heinemann, 1999.

Smith D. Anaesthesia for mediastinal surgery. In: Searl CP, Pardeshi L (eds) Core Topics in Thoracic Anaesthesia. London, Greenwich Medical Media (in press).

Smith D. Myocardial metabolism and oxygen flux. In: Ohri SK, Langley SM (eds) FAQ in cardiac surgery. (in press).

### Editorials

Swanevelder J, Chin D, Kneeshaw J, Chambers J, Bennett S, Smith D, Nihoyannopoulos P. Accreditation in transoesophageal echocardiography. *British Journal of Anaesthesia* 2003; 91: 469-472.

### Reviews

Smith DC, Wace JR. Surface electrodes for physiological measurement and stimulation. *European Journal of Anaesthesiology* 1995; 12: 451-469.

Hett DA, Walker D, Pilkington SN, Smith DC. Sonoclot technology. *British Journal of Anaesthesia* 1995; 75: 771-776.

Yallop KG, Smith DC. The incidence and pathogenesis of acute renal failure following cardiac surgery, and strategies for its prevention. *Annals of Cardiac Anaesthesia* 2004; 7: 17-31

### Articles

Smith D. An improved traction system for fragile bones. *Injury* 1984; 15: 280-1.

Smith DC, Miah H. A nerve stimulator for peripheral nerve blockade. *Anaesthesia* 1985; 40: 569-71.

Smith DC, O'Connell P. Cardiac dysrhythmias during oral surgery. *Anaesthesia* 1986; 41: 745-8.

Smith DC, O'Connell P. The influence of premedication on the incidence of dysrhythmias during oral surgery. *Anaesthesia* 1987; 42: 882-3.

Smith DC, Crul JF. Early postoperative hypoxia during transport. *British Journal of Anaesthesia* 1988; 61: 625-7.

Smith DC, Canning JJ, Crul JF. Pulse oximetry in the recovery room. *Anaesthesia* 1989; 44: 345-8. (Reprinted by invitation in *Clinical Digest* 1989)

Manara AR, Smith DC, Nixon C. Sedation during spinal anaesthesia. A case for the routine administration of oxygen. *British Journal of Anaesthesia* 1989; 63: 343-8.

Smith DC. Central enhancement of evoked electromyographic monitoring of neuromuscular function. *British Journal of Anaesthesia* 1991; 66: 562-5.

- Smith DC. An evoked compound electromyogram simulator with external microprocessor control facility. *Journal of Medical Engineering and Technology* 1992; 16: 129-32.
- Smith DC. The effects of skin blood flow and temperature on skin-electrode impedance and offset potential: measurements at low alternating current density. *Journal of Medical Engineering and Technology* 1992; 16: 112-6.
- Smith DC, Tan S, Follett DH. The effect of temperature on skin-electrode impedance: measurements at high direct current density. *Journal of Medical Engineering and Technology* 1993; 16: 210-3.
- Davidson JAH, Dryden CM, Smith DC. Laboratory assessment of the Baxter disposable patient-controlled analgesia system. *Anaesthesia* 1993; 48: 243-6.
- Dryden CM, Smith DC, McLintic AJ, Pace N. The effect of preoperative  $\beta$ -blocker therapy on cardiovascular responses to weaning from mechanical ventilation and extubation after coronary artery bypass grafting. *Journal of Cardiothoracic and Vascular Anesthesia* 1993; 7: 547-50.
- Smith DC. Changes in recording electrode impedance during anaesthesia have no effect on evoked electromyographic responses. *European Journal of Anaesthesiology* 1993; 10: 371-4.
- Smith DC, Booth JV. The influence of muscle temperature and forearm position on evoked electromyography in the hand. *British Journal of Anaesthesia* 1994; 72: 407-10.
- Hett DA, Smith DC. A survey of priming solutions used for cardiopulmonary bypass. *Perfusion* 1994; 9: 19-22.
- Reeve WG, Ingram SM, Smith DC. Respiratory function after cardiopulmonary bypass: A comparison of bubble and membrane oxygenators. *Journal of Cardiothoracic and Vascular Anesthesia* 1994 8: 502-8.
- Smith DC, Hope AT. The influence of serum concentrations of catecholamines and i.v. or volatile anaesthesia on evoked electromyography in the hand. *British Journal of Anaesthesia* 1994; 73: 342-4.
- Hett DA, Smith DC, Pilkington SN, Abbott TR. Effect of temperature and cardiopulmonary bypass on the auditory evoked response. *British Journal of Anaesthesia* 1995; 75: 293-96.
- O'Kelly SW, Smith DC, Pilkington SN. The auditory evoked potential and paediatric anaesthesia. *British Journal of Anaesthesia* 1995; 75: 428-30.
- Daubeney PEF, Pilkington SN, Janke E, Charlton GA, Smith DC, Webber SA. Cerebral oxygenation measured by near-infrared spectroscopy: comparison with jugular bulb oximetry. *Annals of Thoracic Surgery* 1996; 61: 930-34.
- Barron DJ, Smith DC, Tolan MJ, Livesey SA, Tsang VT. Percutaneous dilational tracheostomy in post-cardiac surgery patients. *European Journal of Cardiothoracic Surgery* 1996; 10: 74-75.
- Janke EL, Pilkington SN, Smith DC. Evaluation of two warming systems after cardiopulmonary bypass. *British Journal of Anaesthesia* 1996; 77: 268-70.
- Webb A, Allen R, Smith D. Closed-loop control of depth of anaesthesia. *Journal of Measurement and Control* 1996; 29: 211-15.
- Daubeney PE, Smith DC, Pilkington SN, Lamb RK, Monro JL, Tsang VT, Livesey SA, Webber SA. Cerebral oxygenation during paediatric cardiac surgery - identification of vulnerable periods using near-infrared spectroscopy. *European Journal of Cardiothoracic Surgery* 1998; 13: 370-7.

- Conti J, Smith D. Haemodynamic responses to extubation after cardiac surgery with and without continued sedation. *British Journal of Anaesthesia* 1998; 80: 834-6.
- Deakin CD, Petley GW, Smith D. Pharmacological vasodilation improves efficiency of rewarming from hypothermic cardiopulmonary bypass. *British Journal of Anaesthesia* 1998; 81: 147-51.
- Roberts PR, Allen S, Smith DC, Urban JF, Euler DE, Kallok MJ, Morgan JM. Improved efficacy of anodal biphasic defibrillation shocks following a failed defibrillation attempt. *Pacing and Clinical Electrophysiology* 1999; 22: 1753-9.
- Roberts PR, Allen S, Smith DC, Urban JF, Euler DE, Dahl RW, Kallok MJ, Morgan JM. A systematic evaluation of conventional and novel transvenous pathways for defibrillation. *Journal of Interventional Cardiac Electrophysiology* 1999; 3: 231-8.
- Dalrymple-Hay MJR, Pack L, Deakin CD, Sheppard SV, Ohri SK, Haw MP, Smith DC, Livesey SA, Monro JL. Autotransfusion of washed shed mediastinal fluid decreases the requirement for autologous blood transfusion following cardiac surgery: A prospective randomised trial. *European Journal of Cardiothoracic Surgery* 1999; 15: 830-4.
- Allen R, Smith DC. Neuro-fuzzy closed-loop control of depth of anaesthesia. *Artificial Intelligence in Medicine* 2001; 21: 185-91.
- Loveman E, van Hooff JC, Smith DC. The auditory evoked response as an awareness monitor during anaesthesia. *British Journal of Anaesthesia* 2001; 86: 513-8.
- Thomas R, Smith D, Strike P. Prospective randomised double blind comparative study of rocuronium and pancuronium in adult patients scheduled for elective "fast-track" cardiac surgery involving hypothermic cardiopulmonary bypass. *Anaesthesia* 2003; 58:265-70.
- Bell SL, Smith DC, Allen R, Lutman ME. Recording the middle latency response of the auditory evoked potential as a measure of depth of anaesthesia. A technical note. *British Journal of Anaesthesia* 2004; 92: 442-5.
- Sheppard SV, Gibbs RV, Smith DC. Does the use of leucocyte depletion during cardiopulmonary bypass affect exhaled nitric oxide production? *Perfusion* 2004; 19: 7-10.
- Sheppard SV, Gibbs RV, Smith DC. Does leucocyte depletion during cardiopulmonary bypass improve oxygenation indices in patients with mild lung dysfunction? *British Journal of Anaesthesia* 2004; 93: 789-92.
- Briggs S, Goodyear P, Thomas R, Strike P, Smith D. A survey of muscle relaxants used for cardiac anaesthesia in the United Kingdom. *Journal of the Intensive Care Society* 2004; 5: 48-51
- Alexiou C, Tang AAT, Sheppard SV, Smith DC, Gibbs R, Livesey SA, Monro JL, Haw MP. The effect of leucodepletion on leucocyte activation, pulmonary inflammation and respiratory index in surgery for coronary revascularization: A prospective randomised study. *European Journal of Cardiothoracic Surgery* 2004; 26: 294-300.
- Alexiou C, Tang A, Sheppard S, Haw M, Gibbs R, Smith D. A prospective randomized study to evaluate the effect of leukodepletion on the rate of alveolar production of exhaled nitric oxide during cardiopulmonary bypass. *Annals of Thoracic Surgery* 2004; 78: 2139-45.
- Alexiou C, Sheppard S, Smith D, Gibbs R, Haw MP. Effect of blood temperature on the efficacy of systemic leucodepletion during cardiopulmonary bypass: a prospective randomised clinical study. *ASAIO Journal* 2005; 51: 802-7.

- Bell SL, Smith DC, Allen R, Lutman ME. The auditory middle latency response, evoked using maximum length sequences and chirps, as an indicator of adequacy of anesthesia. *Anesthesia and Analgesia* 2006; 102: 495-8.
- Alexiou C, Sheppard S, Tang A, Rengarajan A, Smith D, Haw M, Gibbs R. Leucocyte-depleting filters preferentially remove activated leucocytes and reduce the expression of surface adhesion molecules during the simulated extra-corporeal circulation of human blood. *ASAIO Journal* 2006; 52: 438-44.
- Briggs S, Ambler J, Smith D. A survey of tracheostomy practice in a cardiothoracic intensive care unit. *Journal of Cardiothoracic and Vascular Anaesthesia* 2007; 21: 76-80.
- Yallop KG, Sheppard SV, Smith DC. The effect of mannitol on renal function following cardiopulmonary bypass in patients with normal preoperative creatinine. *Anaesthesia* 2008; 63: 576-582.
- Smith MNA, Best D, Sheppard SV, Smith DC. The effect of mannitol on renal function after cardiopulmonary bypass in patients with established renal dysfunction. *Anaesthesia* 2008; 63: 701-704.

### **Case Reports**

- Smith DC, Pillai R, Gillbe CE. Tracheopathia Osteochondroplastica. A cause of unexpected difficulty in tracheal intubation. *Anaesthesia* 1987; 42: 536-538.
- Smith DC, Crul JF. Oxygen desaturation following sedation for regional analgesia. *British Journal of Anaesthesia* 1989; 62: 206-209.
- Smith DC, Ridley SA, Donaldson KF. Fresh frozen plasma and edrophonium in a patient with a plasma cholinesterase deficiency. *Anaesthesia* 1993; 48: 511-513. (Reprinted by invitation in *Search on Anesthesia* 1994; 2(2): 20-21).
- Pilkington SN, Hett DA, Pierce JMT, Smith DC. Auditory evoked responses and near infrared spectroscopy during cardiac arrest. *British Journal of Anaesthesia* 1995; 74: 717-719.

### **Letters**

- Smith DC. Anaesthetic gas scavenging systems. *Anaesthesia* 1985; 40: 81.
- Smith DC. A nerve stimulator for peripheral nerve block. *Anaesthesia* 1985; 40: 1234-1235
- Smith DC. Emergency guided blind intubation. *Anaesthesia* 1986; 41: 1264.
- Smith DC. 'Cured' myasthenia. *Anaesthesia* 1990; 45: 252.
- Smith DC. Reversal of prolonged suxamethonium apnoea. *Anaesthesia* 1992; 47: 630.
- Smith DC, Dryden CM, Hume MA. The metabolic effects of dobutamine. *British Journal of Anaesthesia* 1993; 70: 236.
- Smith DC. BMJ's English confuses readers. *British Medical Journal* 1994; 308: 1373.
- Smith DC, Conti J. Management of tracheal extubation after cardiac surgery. *Journal of Cardiothoracic and Vascular Anesthesia* 1996; 10: 692.
- Alexiou C, Tang A, Sheppard S, Haw M, Gibbs R, Smith D. Exhaled nitric oxide after cardiopulmonary bypass. *Annals of Thoracic Surgery* 2005; 80: 1977-8.
- Smith D. It appears that not all ATX power supplies are the same. *Model Helicopter World* 2008, April(issue 214): 69.

### **Abstracts, presentations and posters**

- Burwell RG, James NJ, Smith DC. Some skin and bone lesions of neurofibromatosis. *Annals of the Royal College of Surgeons* 1982; 64: 198.
- Smith DC, O'Connell P. Cardiac dysrhythmias during oral surgery. North London Group of Anaesthetists 1984.
- Smith DC. An artificial patient for closed loop testing. "Anesthesiology - Feedback/Feedforward", Nijmegen 1987.
- Smith DC, Canning JJ, Crul JF. Pulse oximetry in the recovery room. "Anesthesiology - Feedback/Feedforward", Nijmegen 1987.
- Smith DC. Central enhancement of evoked electromyography. Anaesthetic Research Society April 1990. (*Abstract: British Journal of Anaesthesia* 1990; 65: 290P).
- Dryden C, McLintic A, Smith D, Pace N. Cardiovascular responses to extubation after cardiac surgery. Association of Cardiothoracic Anaesthetists, September 1991.
- Smith DC. The effects of skin blood flow and temperature on skin-electrode impedance and offset potential. Anaesthetic Research Society. (*Abstract: British Journal of Anaesthesia* 1992; 69: 223P).
- Dryden C, Smith D, McLintic A, Pace N. Haemodynamic changes associated with weaning from mechanical ventilation after aorto-coronary bypass grafting. European Association of Cardiothoracic Anaesthetists, June 1992.
- Smith DC, Booth JV. Influence of temperature and posture changes on evoked electromyography (EEMG) Anaesthetic Research Society, April 1992. (*Abstract: British Journal of Anaesthesia* 1992; 69: 223P).
- Smith DC. Recording electrode impedance has no effect on evoked EMG responses. Anaesthetic Research Society, 1992 (*Abstract: British Journal of Anaesthesia* 1992; 69: 535P-536P).
- Hume MA, Dryden CM, Smith DC. Metabolic effects of dobutamine. Association of Cardiothoracic Anaesthetists, November 1992.
- Simon EJ, Dryden CM, Smith DC. The effect of method of weaning from mechanical ventilation on haemodynamic responses after coronary surgery. Association of Cardiothoracic Anaesthetists, November 1992.
- Reeve WG, Ingram SM, Smith DC. Respiratory function after cardiopulmonary bypass - a comparison of bubble and membrane oxygenators. European Association of Cardiothoracic Anaesthetists, April 1993.
- Pilkington S, Hett D, Sheppard S, Smith D. Serum lactate concentrations during cardiopulmonary bypass with a lactated priming solution. Association of Cardiothoracic Anaesthetists, Cambridge, June 1993.
- Smith DC. Changes in skin-electrode impedance with time for four different electrodes. Anaesthetic Research Society, November 1993. (*Abstract: British Journal of Anaesthesia* 1994; 72: 483P).
- Smith DC. The effect of skin puncture on skin-electrode impedance. Anaesthetic Research Society, November 1993. (*Abstract: British Journal of Anaesthesia* 1994; 72: 483P).
- Hett DA, Smith DC, Pilkington SN, Abbott TR. The effect of temperature on the auditory evoked response. Anaesthetic Research Society, November 1993. (*Abstract: British Journal of Anaesthesia* 1994; 72: 487P).

- Dryden CM, Smith DC, Bolsin SNC. A prospective evaluation of the ACTA preoperative risk score: experience in 1100 patients. Association of Cardiothoracic Anaesthetists, November 1993.
- Fisher W, Smith DC. The EEMG in awake subjects. Anaesthetic Research Society, March 1994. (*Abstract: British Journal of Anaesthesia* 1994; 73: 261P-262P).
- Sheppard S, Hett D, Smith D. The management of cardiopulmonary bypass in diabetic patients. Society of Perfusionists, London, 1994.
- Daubeney PEF, Pilkington SN, Smith DC, Livesey SA, Webber SA. Cerebral oximetry in children: validation in the cardiac catheter laboratory. *Circulation* 1994; 90: I-49.
- O'Kelly SW, Smith DC, Pilkington SN. Auditory evoked response and paediatric anaesthesia. Anaesthetic Research Society, July 1994. (*Abstract: British Journal of Anaesthesia* 1994; 73: 719-20P).
- Daubeney PEF, Pilkington S, Smith D, Lamb RK, Monro JL, Livesey SA, Tsang VT, Webber SA. Cerebral oxygenation during paediatric cardiac surgery: identification of vulnerable periods by near infrared spectroscopy. American College of Cardiology, March 1995 (*Abstract: Journal of the American College of Cardiologists* 1995; 25: 272A).
- Goldsmith AL, Ismail F, Smith DC. Residual neuromuscular blockade in the recovery room. Anaesthetic Research Society, March 1995. (*Abstract: British Journal of Anaesthesia* 1995; 75: 235P).
- Sheppard SV, Smith D. Priming solutions for cardiopulmonary bypass in diabetic patients. UK Congress on Perfusion, Birmingham, 1995.
- Conti J, Smith DC. Haemodynamic effects of continued sedation during tracheal extubation. Association of Cardiothoracic Anaesthetists, Cambridge, June 1995.
- Janke E, Pilkington SN, Daubeney PEF, Webber SA, Livesey, Tsang VT, Shearman CP, Smith DC. Cerebral oximetry during cardiac and carotid surgery in adult patients. European Association of Cardiothoracic Anaesthetists, June 1995. (*Abstract: British Journal of Anaesthesia* 1995; 74(Supp 2): 20).
- Hett D, Pilkington S, Smith D. The auditory evoked response during hypothermic cardiopulmonary bypass. European Association of Cardiothoracic Anaesthetists, June 1995. (*Abstract: British Journal of Anaesthesia* 1995; 74(Supp 2): 27).
- Walker D, Smith D. Thromboelastography is a predictor of bleeding after cardiac surgery. European Association of Cardiothoracic Anaesthetists, June 1995. (*Abstract: British Journal of Anaesthesia* 1995; 74(Supp 2): 30).
- Janke E, Pilkington S, Smith D. Evaluation of two warming systems after cardiopulmonary bypass. European Association of Cardiothoracic Anaesthetists, June 1995. (*Abstract: British Journal of Anaesthesia* 1995; 74(Supp 2): 28.)
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- Smith D, Hill F, Timm A, Shewry E, Sanders J. Innovations in clinical attachments: feasibility and success of a new six week attachment at Southampton University Medical School. Association for Medical Education in Europe, Prague, September 2008.

## RELEVANT COURSES

- Accredited training for personnel working under the Animals (Scientific Procedures) Act 1986. Bioscientific Events Ltd, London, June 1996
- Interviewing skills. Wessex Deanery, Poole, December 1997
- Teaching the Teachers, Southampton, March 1998
- Recruitment Skills Workshop, Southampton, July 2002
- Team Training for Critical Incidents, Bristol Medical Simulation Centre, March 2002.
- Appraisal Skills Workshop for Consultants, Southampton, November 2002
- Report Writing and Medical Evidence, London, October 2003
- Mentoring Masterclass, Southampton, December 2003 and February 2004.
- Strategies for Teaching – stage 2. Southampton, March 2004
- Medicolegal report writing and Evidence in court. London, March 2006

## INTERESTS

Electronics, cooking, DIY and car mechanics. In 1979 I built a Dutton Phaeton from scratch, and completed a Chesil Speedster in 2007. My current project is restoring a 1959 Austin A35. I am a keen skier and walker, and have played hockey at club, university and county level until rupturing a cruciate ligament. I also fly radio-controlled model helicopters, recently branching out into electric power instead of conventional internal combustion engines.