

CURICULUM VITAE

Brian R Davidson

October 2004

2. Contents		Page Nos.
1.	Title page	1
2.	Contents	2
3.	Summary	3
3.	Personal details	3
4.	Previous appointments	4,5
5.	Clinical experience	5,6
6.	Teaching, courses, theses	7,8
7.	Administration and management	9
8.	Membership of learned Societies	9
9.	Journal and Grant reviewer	10
10.	Research Interests	11-15
11.	Grants and research funding	16-18
12.	Future plans	20
13.	Publications	21-36
14.	Important abstracts	37-40
15.	Papers in press	41,42
15.	Papers submitted	43-45
16.	Presentations to learned societies	46
17.	Invited talks	47,48
18.	Journal letters	49
19.	Book chapters	50
20.	Organisation of Meetings	50

Summary

I qualified MB ChB from the University of Glasgow in 1981 and completed my basic surgical training in the West of Scotland. I moved to Leicester in the Midlands in 1984 to carry out a 3 year surgical registrar rotation and completed my FRCPS (Glasg) in 1985. I was awarded a Wellcome research Fellowship in 1987 and moved to London to carry out research in monoclonal antibody therapy in bowel cancer at University College Hospital and the Institute of Cancer Research at Sutton, Surrey. The research period was productive and having published and presented widely I was awarded an MD thesis from the University of Glasgow in 1989. I was appointed as Lecturer at the Royal Free Medical School (RFHSM) and Senior Registrar at the Royal Free Hospital in 1989 and continued my clinical training in HPB surgery including for the first time liver transplantation. Over the subsequent 3 years I obtained a firm grounding in HPB and liver transplant surgery and pursued my research interests also in this field. I was appointed as consultant surgeon with the Royal Free Hospital and Senior Lecturer at RFHSM in 1991.

Over the last 13 years I have developed the HPB surgical unit at the Royal Free Hospital and along with my surgical colleague Keith Rolles established the liver transplant programme. Currently my surgical firm carries out about 120 major liver, biliary or pancreatic procedures per year with a wide NHS and private referral practice from the South of England as well as an expanding overseas referral from Greece, Cyprus, India and the Middle East. The main focus of the HPB work relates to cancer and the commonest procedure is partial hepatectomy for colorectal metastases (approx 50 major resections/year). The majority of the clinical work is carried out at the Royal Free Hospital but there is a developing HPB surgical and medical group based at the Wellington Hospital. The liver transplant programme involves 60-65 transplants per year and is one of the 7 UK programmes. Our results are continuously reviewed and are currently comparable with other major centres in the UK and across Europe.

In parallel with the development of a specialist referral practice in HPB surgery and liver transplantation a research programme has been ongoing in the Department of Surgery at the Royal Free Hospital which is part of the Royal Free and University College Medical School, University College London. My main research interests are in liver injury related to surgery including organ preservation and HPB cancers. This research programme has resulted in my supervision of 18 higher degrees which have been successfully completed through the University of London (MSc, MD and PhD). I have published 200 full peer reviewed papers in both clinical and basic science journals related to my field of research and was awarded a personal chair as Professor of Surgery at UCL in 1997. My research has resulted in an overall income of £830,000 since I was appointed to the Royal Free staff coming from grant awarding bodies and foreign Government sponsorships.

I am currently involved in many hospital, University and National management and research groups and review for a large number of journals and grant awarding bodies. My focus on education related to HPB surgery is reflected in my contributing 9 chapters to major surgical textbooks. My medico-legal interests have mainly related to bile duct injuries occurring during cholecystectomy, an area in which I would be considered by some as an authority.

My current plans are to provide and direct a state of the art surgical service for patients requiring HPB and Liver Transplant surgery at the Royal Free and Wellington Hospitals running in parallel with an Internationally renowned research group focusing on basic and applied research related to organ injury and preservation and HPB cancers.

3. CURRICULUM VITAE

Full Name : **Brian Ritchie Davidson**

Nationality : **British**

Age : **46**

Date of Birth : **31.5.58**

Marital status : **Married**

School Education : **Hamilton Academy**

University Education : **Glasgow University 1976-1981
1st class merit in Medicine**

Post Graduate Diploma : **FRCS (Glasg) 1985
MD (Glasg) 1989
FRCS (Engl) ad eundum 1999**

Present Post : **Professor of Surgery,
University Dept of Surgery,
Royal Free Campus, Royal Free and University
College School of Medicine**

Medical Defense No. : **D/07/0358**

BMA membership No. : **1686240-66**

GMC registration No. : **2557250**

4. PREVIOUS APPOINTMENTS

1981-1984 : House Officer and Senior House Officer Posts

Aug 81-Feb 82	Medical H.O.	Dr G Allan	Vale of Leven Hospital, Alexandria
Feb 82-Aug 82	Surgical H.O.	Mr A L Morton	Royal Alexandra Infirmary, Paisley
Aug 82-Aug 83	Orthopaedic/ Casualty SHO	Mr R A McRae Mr J Bingham Mr S Whitfield Mr S McCreath	Southern General Hospital, Glasgow
Aug 83-Aug 84	General Surgery SHO	Mr G Bell Mr G Orr	Inverclyde Royal Infirmary, Greenock

1984-1987 : Surgical registrar rotation : Leicester

Sept 84-Mar 85	Mr N Everson Mr D Fossard	Paediatric and General Surgery	Leicester Royal Infirmary
Mar 85-Sept 85	Mr J Bailey Mr J Leverment	Cardiothoracic	Groby Road Hospital
Sept 85-Mar 86	Mr W Barrie Mr P Veitch	Vascular and Renal Transplant	Leicester General Hospital
Mar 86-Sept 86	Mr D Watkin Mr M Johnstone	General and Paediatric Surgery	Leicester Royal
Sept 86-Mar 87	Mr J T Holmes	Colorectal	Peterborough DGH
Mar 87-Sept 87	Mr R Windle	General Surgery and Oncology	Glenfield DGH

1987-1989 : Lecturer in Surgery, University College Hospital

Lecturer in the Department of Surgery, University College and Middlesex School of Medicine, London. Post commenced September 1987 with Professor Charles Clark. Subsequent Head of Department Professor Michael Hobsley.

Lecturer and Honorary Senior Registrar, Royal Free Hospital School of Medicine (1989-1991)

Lecturer in surgery, Royal Free Hospital School of Medicine and honorary senior registrar, North East Thames Regional Health Authority.

Aug 89-Oct 89	Mr K Rolles	General Surgery and Liver Transplantation	Royal Free Hospital
Oct 89-Oct 90	Prof K Hobbs Mr N Habib	General Surgery and Hepatobiliary	Royal Free Hospital
Oct 90-Oct 91	Mr R Gardham	General Surgery and Vascular	Chase Farm District Hospital

October 1991 - Feb 1997

Senior Lecturer and Consultant, University Department of Surgery, Royal Free Hospital and School of Medicine

Feb 1997-present

Professor of Surgery, Royal Free Campus, Royal Free and University College School of medicine and Consultant surgeon, Royal Free Hospital

5. CLINICAL EXPERIENCE

As a junior doctor

My clinical experience in general surgery commenced in 1983 with a year as a Senior House Officer in a busy district general hospital. The considerable practical experience provided by this post allowed me to advance my operating and diagnostic skills rapidly during my subsequent registrar rotation in Leicester and to gain the final FRCS during the first year of this three year rotation. The subsequent two years as a post fellowship registrar in Leicester were spent rotating through busy clinical firms and working without direct senior registrar cover. One year of this period was therefore recognised for higher surgical training.

On obtaining my lectureship at University College Hospital I continued having clinical responsibilities of operating sessions and out-patient clinics but these were limited to allow time for teaching and research. After 18 months I completed my research for an MD thesis and returned to a full time clinical post as a lecturer and senior registrar in surgery on the Royal Free Hospital senior registrar rotation. During this post I worked at both the Royal Free Hospital, Hampstead and Chase Farm District General Hospital, Enfield.

During the course of my registrar and senior registrar rotations I gained considerable experience in the emergency and elective management of patients with general surgical problems. My specialist surgical experience was in the fields of hepatobiliary, liver and kidney transplant, vascular, paediatric, urological and cardiothoracic surgery.

Endoscopy experience

Weekly endoscopy lists over a period of four years allowed a firm grounding in upper gastrointestinal endoscopy, flexible sigmoidoscopy and colonoscopy.

Clinical experience at consultant level

Since taking up post at the Royal Free Hospital as Consultant Senior Lecturer in October 1991 I have managed a general surgical firm with an on-call commitment and out patient services. I have pursued a special interest in surgery of the liver, biliary tract and pancreas.

Hepato-pancreatico-biliary (HPB) surgery

My main interest is in the area of the liver, biliary tract and pancreas. This interest started as a trainee whilst working as a registrar in Leicester. It was subsequently encouraged and guided by Mr Rolles, Habib and Prof Hobbs at the Royal Free Hospital. Over the last 5 years I have managed to establish a large referral practise for HPB surgery. A major aspect of this practise is the treatment of liver cancers. Over the last year 58 patients with liver tumours were referred for consideration of resection and 70% proceeded to liver surgery. I considered that there was insufficient oncology input in the management of HPB cancers and therefore established a weekly joint clinic with Richard Begent, Professor of Oncology at the RFHSM. This has developed into a valuable forum both clinically and to facilitate clinical research.

Bile duct injuries following laparoscopic cholecystectomy has been an interesting and expanding referral practise over the last 4 years and the outcome of reconstructive surgery for the management of these complex injuries, which constitutes the largest surgical series in the UK, has been submitted for publication. HPB surgery depends on close links with endoscopists and interventional radiologists and I have established clinical and research links in these areas. I feel that the combination of my surgical track record and the clinical collaborations that have been established would ensure HPB surgery at the Royal Free a future National and International reputation.

Liver Transplantation Programme

I have been involved with the Royal Free Hospital Liver Transplantation Programme since August 1989 (shortly after its commencement) when I was appointed as a Senior Registrar on the RFH rotation. I have built up knowledge and technical skills in liver transplantation under the personal guidance of Mr K Rolles, Consultant Surgeon and Senior Lecturer at the Royal Free Hospital and Director of the Liver Transplant programme. My appointment as Senior Lecturer in the University Department of Surgery in October 1991 allowed me to further my expertise in this field and I have been involved at consultant level in liver transplantation for 10 years. This has included the daily pre operative assessment and post operative care along with our hepatology colleagues. I intend to continue in this field am interested in adult pancreatic transplantation. I have established a programme of both clinical and laboratory based research in Liver transplantation and would intend to expand on this over the next few years.

6. Teaching , courses and theses

a) Teaching

Throughout the period of my registrar and senior registrar training I have been keen to provide student teaching at the bedside, in tutorials and in lectures. This experience has fashioned my attitudes towards undergraduate teaching which is given a high priority on my clinical firm. Although a challenge for medical teachers I do not feel that the current alterations in the delivery of healthcare in London and the rest of the UK will detract from the quality of undergraduate teaching in the future.

As a clinical lecturer at University College Hospital I organised and taught the surgical component of the Human Diseases course for dental students which was a useful insight into the provision of concise medical courses.

As Consultant and Senior Lecturer at the Royal Free Hospital I have been responsible for the teaching of students attached to my firm and have also organised the surgical formal teaching arrangements and revision courses for final year students. In order to better understand and influence the teaching at the Royal Free Hospital I became the surgical representative on the Royal Free Hospital Education Committee.

Postgraduate teaching in clinical surgery has included the training of senior house officers and registrars for the FRCS exams. The main emphasis in postgraduate teaching, however, is in the clinical and research aspects of hepato-pancreatico-biliary surgery and liver transplantation. Over the

last few years I have had an increasing number of applications from surgical trainees abroad to join the firm for training in HPB surgery. I intend to develop postgraduate specialist training courses in this field directed at both the UK and international market.

b) Organisation of courses

- MSc module in liver transplantation (postgrad)
- SSM module in liver transplantation (undergrad)

Supervision of theses

1993	MS Mr Jonathan Dawson An evaluation of photoimmunotherapy as a treatment for colorectal cancer Awarded January 1993.
1995	BSc Dr Mark Cutress : Evaluation of liver perfusion using laser doppler in an animal model Awarded 1st class honours June 1995
1995	MSc Mr Veeraraghavan Chidambaran : Laser doppler assessment of tissue perfusion in liver donors and its correlation with function following transplantation. Awarded Oct 1995
1995	MSc Mr Asaad Elfighi Nitric oxide activity in cirrhosis. Awarded Oct 1995
1996	MSc Mr Shafiq Javid Evaluation of a novel autologous tissue glue in a pig hepatectomy model Awarded Oct 1996
1996	MSc Mr Sam Objeide The use of Near Infra-Red Spectroscopy (NIRS) for the evaluation of liver graft perfusion. Awarded Oct 1996
1996	MSc Mr Sareela Abeezer Evaluation of iNOS and cNOS in liver transplant recipients and portal hypertensive rats. Awarded with distinction Oct 1996
1998	MSc Mr Salah Gehani Evaluation of implantable laser doppler probe for the measurement of the hepatic microcirculation. Awarded Oct 1998
1998	MSc Miss Bhimani Kassam The role of nitric oxide in the pathogenesis of cirrhosis Awarded Oct 1998
1999	MSc Miss Angela Riga Ischaemia / reperfusion injury and intercellular adhesion molecule (ICAM-1) expression. Awarded Oct 1999
1999	MSc Mr Abdaal Khan Novel approaches to the short and long term outcome of pancreateo-duodenectomy. Awarded Oct 1999
2000	PhD Mr Yongyut Sirivatanauksorn Angiogenesis in hepatocellular carcinoma Awarded Feb 2000

- 2000 MD Mr Hamid Al-Desoky
Use of Near Infra-Red Spectroscopy (NIRS) for liver graft evaluation
Awarded Sept 2000
- 2001 MD Mr Long Jiao
The effect of enhancing portal venous inflow on hepatic haemodynamics and
function.
Awarded Oct 2001
- 2002 PhD Mr Mohammed Al-Waasch
Vascular adhesion molecules and liver graft reperfusion injury.
Awarded Oct 2002
- 2003 MD Mr Abuchi Okaro
Apoptosis in cholangiocarcinoma
Awarded
- 2003 MD Mr Rahul Koti
The role of nitric oxide in ischaemic pre-conditioning of the liver
Awarded with commendation Aug 2003
- 2003 MSc Mr Mohammed Habib
Hepatic function during normothermic extracorporeal perfusion in the rabbit
liver model.
Awarded Oct 2003 with distinction

7. Administration and management experience

Administrative duties at a junior level involved the organisation of both final MB and FRCS examinations. At the Royal Free Hospital during my Lecturer appointment I also organised the postgraduate surgical grand rounds and was secretary of the Academic staffing committee. At Chase Farm Hospital I was the junior staff representative for the Division of Surgery.

Administrative and management duties

- 1) Academic representative of Lawn Road Divisional Management Group 1992-2000
- 2) Department of Surgery representative on Audit Committee 1993-present
- 3) RFH representative of University of London Board of Studies in Surgery
- 4) Education Committee, Royal Free Hospital Medical School since 1993
- 5) Member of the Committee of Examiners for final MB, University of London.
- 6) FRCS examiner Royal College of Surgeons of Glasgow since 1995
- 7) Member of MCQ panel for final MB, University of London 1996-2000
- 8) Chairman of MCQ sub panel, Un London from Oct 1997-2001
- 9) Member of Higher Degrees Sub Committee, RFH Jan 1994-present
- 10) RFH Ethical Practises Committee from Nov 94 to present
- 11) Surgical Tutor at the RFH for RCSE from Feb 1996-1998
- 12) Unit Training Director for Surgery April-Dec 1996-1998
- 13) Representative on the School Committee from Mar 96
- 14) Library committee June 1995-2000
- 15) Medical Information Technology Advisory group Aug 1997-
- 16) Committee of Society of Academic Surgeons from Oct 1997-2000
- 17) Chairman Higher Degrees Committee RFHSM from March 1998
- 18) Chairman GI and HPB Specialty Group from Nov 1997-2000
- 19) Chairman final MB MCQ panel Univ of London Oct 1997-2000
- 20) Deputy Chairman, Subject Panel in Surgery, Univ of London. Aug 1997 – present
- 21) Member International Scientific committee, International Hepato Pancreato Biliary Association
- 22) Chairman of Postgraduate Teaching and Research Committee, Royal Free Campus, RFUCSM 1998- present
- 23) Committee member. Assoc of Professors of Surgery 1999-2000
- 24) Surgical section, British Society of Gastroenterologists Mar 2002

8. Membership of Learned Societies

British Society of Gastroenterologists
British Transplantation Society
International Hepato-Pancreatico-Biliary Association
International Liaison Officer, Section of Transplantation, Royal
Society of Medicine
Surgical Research Society
Awarded Fellowship Assoc of Surgeons of GB and Ireland 27th April 2004

9. Journal and Grant Reviewer

British Journal of Surgery
Journal of Hepatology
Transplantation
Journal of Surgical Oncology
Liver

Medical Research Council grant reviewer
Scottish Hospital Endowment Fund reviewer

10. Research Interests

a) Research as a surgical registrar (1984-1987)

My interest in research commenced whilst working in cardiothoracic surgery back in 1985. During this period I studied the incidence and aetiology of incisional epigastric herniae following the median sternotomy incision and described a novel "double door" method for their repair. In paediatric surgery the results of pyloroplasty along with Nissen fundoplication for gastroesophageal reflux was investigated and a low incidence of "gas-bloat" syndrome demonstrated for this combined procedure.

In general surgery my initial research interests mainly involved the biliary tree and pancreas. Work on the accuracy and relative merits of different biochemical systems for predicting gallstones in acute pancreatitis suggested that the Leicester system of predictive factors was more accurate but more complex to use than the Glasgow system. This led to a clinical and laboratory project to assess the significance of cholesterol and calcium bilirubinate crystals in bile obtained endoscopically under CCK stimulation in patients with idiopathic acute pancreatitis. This demonstrated that many patients considered "idiopathic" actually have bile crystallisation. The relative merits of managing common bile duct (CBD) stones by surgery or endoscopic sphincterotomy (ES) was also extensively investigated by analysis of risk factors and outcome. This clearly demonstrated that ES is the preferred treatment for CBD stones in patients at high risk from surgery and that cholecystectomy is ultimately required in only about 10% of these patients.

Other projects which I initiated as a surgical registrar are a comparison of intraperitoneal and portal vein 5 Fluoro-Uracil administration in patients with colorectal cancer and a prospective randomised study of anal dilatation and lateral sphincterotomy in the management of chronic fissure in ano with manometric assessment of anorectal pressures.

b) Research as Lecturer at UCH (1987-1989)

I was awarded the Wellcome Lectureship in Surgery at UCMSM for research proposals on the clinical use of monoclonal antibodies. The post as lecturer involved clinical and teaching duties but in addition allowed for a period of intense research. During this time I investigated the role of monoclonal antibodies to epithelial membrane antigen (EMA) in patients with colorectal cancer and demonstrated several areas of diagnostic use. This work formed the basis of an MD thesis which was accepted in Oct 1989 and awarded in December 1989 by the University of Glasgow. **"The role of monoclonal antibodies to epithelial membrane antigen (EMA) in the investigation of patients with colorectal cancer"**.

This period of research provided me with a thorough understanding of basic research methodology and techniques which I have been able to utilize and expand upon over the last 7 years.

c) Research as Lecturer and Senior Registrar at RFH (Aug 89-Oct 91)

Over my 2 year period as lecturer/senior registrar I was involved full time in clinical work on busy surgical firms at the Royal Free Hospital and Chase Farm Hospital. I maintained my research interests in my free time by involvement in several clinical and basic science research projects resulting in 12 full publications in leading journals over this time period.

1) Antibody-photosensitiser conjugates

This project explored the possibility of combining a monoclonal antibody recognising a tumour associated antigen with a photosensitising agent which produces tissue destruction when stimulated by light. The project was organised and funding obtained from the Rockefeller Foundation by Mr Hugh Barr and myself whilst working at University College Hospital. Mr J Dawson was employed and supervised by myself for a 2 year period on this project. The result of this period of research was that a stable conjugate was formed which was considerably more cytotoxic than free photosensitiser and which was capable of destroying solid tumours growing in an animal model. This work obtained an MS thesis from the University of London in 1993.

2) Intra-operative probing with Iodinated MAb

I supervised this work which was carried out at University College Hospital and which was a continuation of a similar project initiated by myself.

3) Exfoliative biliary cytology : a retrospective analysis

The use of exfoliative cytology for the diagnosis of biliary strictures was reviewed at the RFH and the results published.

4) The selective use of a right retroperitoneal approach to abdominal aortic aneurysms

A new operative approach was described for use in patients with difficult abdominal aortic aneurysms and the results in a group of patients from Chase Farm Hospital were assessed.

5) The use of axillo-bifemoral grafting in the management of critical lower limb ischaemia

The indications for and results of this technique in a District Hospital were assessed whilst working at Chase Farm Hospital.

6) Hydatid disease

Although this condition is almost epidemic in certain parts of the world there are surprisingly few useful studies on investigation and treatment. In conjunction with Musa Akoglu, a surgeon on attachment to the Royal Free Hospital, an analysis was carried out on the use of Endoscopic Sphincterotomy in hydatid disease open to the biliary tree, on the difficulties of diagnosing liver hydatids on ultrasound alone and on the confusing terminology used in hydatid liver disease.

Research as Consultant Senior Lecturer (1991-1997)

Over the last 5 years I have focused my research interests along with my clinical interests in the field of the liver, biliary tract, pancreas and liver transplantation. I have developed productive links with clinicians and scientists who are interested in research in this field and have directed an HPB research group in the department of surgery at the Royal Free Hospital School of Medicine. The main areas of research have been as follows:

1) The use of ¹²⁵I-anti CEA for the intra-operative staging of colorectal cancers(Radio Immuno Guided Surgery, RIGS)

This project was organised in conjunction with Professor Begent in the Department of Clinical Oncology and is part of a CRC clinical trial. Study ongoing.

Funding : NE Thames Health Authority for research nurse £21,000. Further funding arrangements are being negotiated with the probe manufacturers.

2) A prospective trial comparing brush and bile exfoliative cytology for biliary strictures

My proposals for this prospective study, recently completed, were submitted to the Wilson-Cook Medical Corporation who funded the equipment costs. The study was conducted, under my supervision, at the Royal Free Hospital by Mr T Kurzawinski, the Hepatobiliary Research Fellow. It has clearly demonstrated for the first time that brush cytology is superior to bile exfoliative cytology.

Funding : Provision of disposable equipment approx £10,000. Completed and published 1993.

3) Percutaneous biliary stenting : Successes, failures, complications and their management

The results of percutaneous stenting at the RFH have not been published since 1984. What are the modern day indications for this approach?. This data is currently being presented at meetings and will be published in the near future.

Funding : nil

4) An experimental trial on laparoscopic hernia repair

A hernia repair is the commonest elective surgical operation performed in the UK and yet the best method of repair has not been established. Over the last two years we have carried out a programme of research on the laparoscopic hernia repair in pigs with congenital hernias. Experimental work completed. Presented at Moynihan plenary session of Association of Surgeons of GB and published in Br J Surgery.

Funding : Ethicon Corporation £50,000

5) A prospective controlled study of biliary reconstruction following liver transplantation

This is the first prospective randomised trial of biliary tract reconstruction following liver transplantation. Study completed and manuscript submitted for publication.

Funding : Nil

6) Intra-operative assessment of liver transplantation using laser doppler

Technical aspects of vascular reconstruction were studied using an intra-operative laser Doppler and an oxygen electrode. A surgical trainee, Mr Chidambaram, carried out an MSc project on this topic under my supervision. Awarded October 1995.

Funding : University of London for MSc project expenses £5000

7) **Prospective controlled study of colour doppler and angiography pre-transplantation**

Colour doppler is a recent innovation in the assessment of patients prior to liver transplantation. It had not been adequately compared with angiography in a prospective controlled trial. Trial completed and published in abstract form.

Funding : Nil

8) **The detection of liver graft rejection using Doppler US.**

It has previously been shown in children that Doppler US is capable of detecting graft rejection and that this may precede clinical and biochemical abnormalities. We have applied this technique to adults undergoing liver transplantation. Study completed and published in abstract form.

Funding : RFH Special Trustees £13,000

9) **Lipiodol and Liver tumours**

The mechanism of uptake of the fatty emulsion Lipiodol in liver tumours is poorly understood. This question was investigated by administering this agent, at the time of selective hepatic arteriography to patients with end stage liver disease who are being considered for liver transplantation. A surgical Research Fellow, Mr Bhattacharya, analysed this data which will be published shortly in Hepatology.

Funding : Soft money funding £4000

Research 1998-2002

Magnetic Resonance Spectroscopy (MRS)

Several projects are currently ongoing in collaboration with the MRI Unit at the Hammersmith Hospital. These include the investigation of fat and liver metabolism in patients with chronic liver disease before and after liver transplantation and those with malignancy. The major thrust of my MRS research interest has been in the field of organ preservation for transplantation. With funding from Wellcome a programme of large animal whole liver ^{31}P MRS has been performed to accurately and non-invasively demonstrate ATP metabolism. The effect of hypothermic reperfusion has been investigated and computer software designed to analyse the ATP metabolites using an artificial neural network. This completely novel system has been used to investigate the metabolic effects of alterations in preservation solution composition including the effects of substrate addition and of prostaglandins.

Previous funding : Wellcome Trust project grant /93/4056
1994-6 £151,736

Evaluation of organ function by Near Infrared Spectroscopy (NIRS)

This project involves Near Infrared Spectroscopy (NIRS) and its application to the function of transplanted organs. We have carried out an evaluation of its use in determining organ perfusion and oxygenation in a large animal model and have obtained some preliminary data in human liver transplantation. An MSc project has been completed on the animal work (awarded Oct 1996) and financial support obtained from the Egyptian government for three years to cover the research work towards a PhD for a surgical trainee. A collaboration has been established with Professor Delpy at UCL who is a world expert in this field and a joint research funding application will shortly be submitted to BBSRC for the development of an implantable probe for post operative monitoring of human liver transplant recipients.

Previous funding :	Univ of London clinical MSc student	£5,000
Current funding :	Egyptian government for PhD project	£54,000
	Stanley Thomas Johnson Foundation 1998-2001	£67,000

Development of a portal perfusion pump

This is a multi-centre european collaborative project involved in the design of the pump and controls systems for implantable clinical use along with a pre clinical and clinical evaluation. Dr Seifalian and myself in the Department of surgery at RFHSM have performed the pre-clinical evaluation in small and large animal models and will be pilot users of the clinical system.

Current funding	Full time MS student for two years	£34,000
	EEC collaborative group grant (Biomed 2)1997-2001	£75,000

Mechanisms of liver graft rejection

The mechanisms of both graft rejection and preservation injury are poorly understood. We are currently investigating the role of endothelial adhesion molecules in liver graft preservation injury and acute rejection. This project to date has produced new data on the effect of cold preservation, reperfusion and acute rejection on the expression of liver ICAM-1 and PECAM. Human soluble adhesion molecule expression is soon to be analysed and a suitable animal model for further experimental work established. Submission of a project grant is planned.

Funding	overseas PhD student 1995-1998	£54,000
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Nitric oxide activity in cirrhosis

This is a clinical research project in liason with Dr Robert Mathie, Senior Lecturer in the department of Surgery at the Hammersmith Hospital. It has evaluated the importance of Nitric Oxide activity to the haemodynamics of portal hypertension in patients with liver cirrhosis undergoing liver transplantation and in the rat portal hypertension model. Two successful MSc projects have been completed on this subject, one receiving a distinction. Preparation for a collaborative grant application between several London centres is planned.

Funding :	Univ of London clinical MSc students x 2	£10,000
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Angiogenesis in human hepatocellular carcinoma

The Royal Free Hospital is a major referral centre for patients with primary liver tumours and there are many unanswered questions in the aetiology and management of these cancers. This study on tumour angiogenesis is a collaboration between Dr Dhillon in Histopathology, myself at RFHSM and Professor Lemoine in molecular pathology at RPMS. The work is centred on the angiogenic factors expressed by malignant and pre-malignant lesions in cirrhotic human explant livers using immunohistochemical and molecular biology techniques. Funding has been obtained from the medical school in Bangkok to employ a research fellow for three years jointly between RFHSM and RPMS.

Funding :	Bangkok Medical School for PhD student	£27,000
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Autologous fibrin glue in liver surgery

This unique product which can be produced from 180mls of human whole blood avoids the infective possibilities of using a fibrin sealant derived from pooled donor serum or animal products. We have evaluated this fibrin sealant in a pig partial hepatectomy model and are currently organising a phase 1 clinical study in patients undergoing partial hepatectomy. An MSc project was completed on the animal work (awarded Oct 1996).

Funding :	Convatec Advanced Technology	1995-2000	£46,352
	University of London clinical MSc student		£5,000

Development of immortalised hepatocyte cell lines by viral transfection and liver cell preservation studies

Artificial liver support systems are not available due to the limitations of fresh isolated large animal hepatocytes or human tumour cell lines. Human hepatocyte cell lines immortalised by viral transfection would be ideal. Dr Fuller, Senior Lecturer in Dept Surgery and myself have collaborated with a group from the European Cell Culture Agency, Porton Down (Dr Glen Stacey and Dr Thierry Battle) on this topic. Normal human liver has been used as a source of hepatocytes for immortalisation work. This collaboration has been facilitated by a joint MSc student (Dr Mario Caruana).

Funding	Pharmagene funding for post doc	£25K/annum
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Current major research interests (2003-)

- 1) **Liver ischaemia –reperfusion injury**
- 2) **Novel approaches to the assessment of HPB cancers**

New therapeutic strategies in pancreatic cancer

We have recently established the golden hamster pancreatic cancer model to facilitate studies on new therapeutic strategies in pancreatic cancer. The current focus is on angiogenesis inhibition including selective blockade of ET receptors and determining the mechanism of tumour growth inhibition with androgen receptor blockade.

The perfused ex vivo human liver tumour : a novel model for evaluating chemotherapeutic responses to human bowel cancer and for the identification of novel tumour vascular antigens.

The evaluation of chemotherapy agents using immunocompromised animal xenografts or tumour cell lines correlates poorly with their subsequent clinical use. We have considerable experience in the Department of surgery on the use of ex vivo whole organ perfusion systems and intend to use these techniques to perfuse human liver tumours ex vivo. Using this model we will evaluate the ability of chemotherapy agents used for the treatment of liver tumours to produce strand breaks in tumour DNA using a recently developed Comet assay. This project is a collaboration between myself in Dept of Surgery at RFHSM, Dr Hockhauser in Dept Oncology at RFHSM and Professor Roberts in Dept Oncology at Middlesex . Project ongoing with MS student (Mr Duncan Spalding) and grant application intended once preliminary data obtained.

11. GRANTS AND RESEARCH FUNDING

The Wellcome Trust Davidson B.R. , Clark C.G. The role of monoclonal antibodies to Epithelial Membrane Antigen (EMA) in the evaluation of patients with colorectal cancer.	Aug 1987-Aug 1989	£120,000
NE Thames Regional health Authority Davidson B.R. The role of anti-AFP monoclonal antibodies in the staging of hepatocellular carcinoma.	April 1993-April 1994	£21,000
Ethicon Corporation Davidson B.R. , Winslet M.C. An experimental evaluation of the laparoscopic hernia repair	Jan 1994-Jan 1995	£50,000
The Wellcome Trust Ref No. M/93/4056 Davidson B.R. , Fuller B.J., Taylor-Robinson S.D., Bell J.D., Bryant D The role of ³¹ P MRS in assessing liver function prior to transplantation.	Oct 1994-Oct 1996	£151,736
ConvaTec Advanced Technology Davidson B.R. Evaluation of a novel fibrin sealant in a pig partial hepatectomy model.	Grant BSBN Feb 1996-Feb 2000	£46,352
Royal Free Hospital Special Trustees Seifalian A, Davidson B.R. Microvascular perfusion as a criteria for organ selection in human liver transplantation.	Jan 1996-Jan 1998	£13,000/yr
Liver Cancer Research Fund Charitable fund for liver cancer research	1998-	£60,000
McIntyre N (Seifalian A, Davidson BR) ESPRITT 111 Grant No DSGH 3751 Development and clinical testing of an implantable device to assist blood flow through cirrhotic liver. Royal Free component	Grant BXD9B 1997-2000	600,000 ecu (£500,000) £75,000
Seifalian A, Davidson BR University Dept Surgery, RFHSM and Dept Medical Physics, UCL Near Infrared Spectroscopy (NIRS) : a new technique to investigate and monitor nitric oxide production in graft rejection following human liver transplantation. Stanley Thomas Johnson Foundation	Oct 1998-2001	Funded £67,000
Seifalian AM, Davidson BR Teleplanning for liver transplant surgery. EPSRC		Funded Nov 1999-Oct 2002 £77,629
An open, single center study to determine the antibody response to 500mcg G17DT and its safety and tolerability in patients with irresectable pancreatic carcinoma. Sponsored by Aphton Corporation. Principal invstigators Dr Martyn Caplin, Dr Daniel Hockhauser and Prof B Davidson		
Innate immunity in the liver : defensins and the clinical outcome of HCV Jacobs M, Duschieko G, Dhillon AP, Davidson BR Royal Free Hospital Clinical Research Fellowship for Dr Penelope Smith		Funded Sep03-4 £29,850

Meyer T, Chester K, Pedley B, Davidson B	Funded Nov 03-4
Development of an ex vivo model for using antibody phage display to select optimum tumour vascular targeting antibodies.	
Cancer Research UK	£45,607
Davidson B, Hutchins R, Bhattacharya S, Williamson R	
The role of oxidative stress in chronic alcoholic pancreatitis : correlation of clinical outcome after surgery with markers of oxidative stress.	
The Wellcome Trust June 2003	£48,362 over 2 years
Kanoria S, Jalan R, Davidson B	
Remote ischaemic preconditioning in patientys undergoing liver surgery	
Equipment costs for ICG clearance monitoring	£10,000
Peter Samuel Royal Free Fund Grant 906	
Mohammadi B, Press M, Davidson BR	
The use of MRS in the evaluation of pancreatic islet cell viability.	
BTS Research Fellowship	£40,000
Mohammadi B, Press M, Davidson BR	
The use of MRS in the evaluation of pancreatic islet cell viability	
UCL graduate shool Research Project Funds	£2000

12. FUTURE PLANS

Having become a Professor of Hepato-Pancreatico-Biliary Surgery I now wish to direct a Unit which is at the forefront of the many aspects of this field both clinically and in research. I wish to continue in the field of liver transplantation and assist in establishing an adult pancreas programme. I would also wish to continue to develop the area of minimally invasive surgery maintaining a critical evaluation of new techniques.

Clinical development in my career has run in parallel with an extensive research programme which I wish to maintain and expand. Most of this research is clinically related but often laboratory based and in the field of the liver, biliary tract or pancreas. This allows me to integrate my clinical and research strengths. The areas of particular interest are demonstrated by my current research projects and publications.

13. PUBLICATIONS

Liver

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Hepatolithiasis associated with anomalous biliary anatomy and a vascular compression.
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Retrieval of the donor organ for orthotopic liver transplantation : an audit
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BASL September 2001

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BTS April 2002

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The role of N acetyl cysteine administered during the donor operation on subsequent liver transplantation : a randomized pilot study.
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Proendothelin correlates with VEGF expression in the HaP-T1 Syrian Hamster Pancreatic cancer model.
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Normothermic extracorporeal perfusion of non heartbeating donor livers. Metabolic and haemodynamic assessment.
Gut 2004 ; 111 (53) : A93

14. PAPERS IN PRESS

Rolles K, Fusai G, Rolando N, Koti R, Patch D, **Davidson BR**, Burroughs AK
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Liver Transplantation 2004

Sheth H, Javed SS, Hilson A, Buscombe J, **Davidson BR**
Radioisotope bone scans in the preoperative staging of hepato-pancreato-biliary cancer.
Br J Surg 2004

Abraham AT, Shah SR, **Davidson BR**
The HaP-T1 Syrian Golden Hamster Pancreatic Cancer Model : Cell Implantation Is Better Than
Tissue Implantation.
Pancreas 2004

Hafez TS, Habib MM, Seifalian AM, Fuller BJ, **Davidson BR**
Near infrared spectroscopic assessment of mitochondrial oxygenation status : comparison during
normothermic extracorporeal liver perfusion by buffer only or buffer fortified with washed red
blood cells.
Transplant Proceedings 2004

Koti R, Yang W, Glantzounis G, Quaglia A, **Davidson B**, Seifalian A
The effect of ischemic preconditioning on hepatic oxygenation, microcirculation and function in a
rat model of moderate hepatic steatosis.
Clinical Science 2004

Koti R, Janicxe Tsui, Lobos E, Yang W, Seifalian A, **Davidson B**
Nitric oxide synthase distribution and expression with ischaemic preconditioning of the rat liver.
Am J Transplantation July 2004

Lane CS, Nisar S, Griffiths WJ, Fuller BJ, **Davidson BR**, Hewes J, Welham KJ, Patterson LH
Identification of cytochrome P450 enzymes in human colorectal metastases and the surrounding
liver : a proteomic approach.
Eur J Cancer 2004

Habib M, Hafez T, Parkes H, Seifalian A, Fuller B, **Davidson B**
A comparison of bile composition from heart beating and non heart beating organ donors during
normothermic extracorporeal liver perfusion : experimental evaluation using proton magnetic
resonance spectroscopy.
Transplant Proceedings 2004

15. PAPERS SUBMITTED FOR PUBLICATION

Karatapanis S, Lanzani G, Chin J, Shpirer Z, Dhillon P, Pillay D, **Davidson BR**, Rolles K, Burroughs AK
Anti-thymocyte globulin (ATG) immunoprophylaxis in liver transplantation- comparison with cyclosporin A (CyA)
Liver Transplantation and Surgery

Spalding D, Gordon M, Sirivatanauksorn Y, Ganeshaguru K, Hochhauser D, **Davidson BR**
Transport proteins and multi-drug resistance in human hepatocellular cancer cell lines.
Gut

Hewes JC, Hochhauser D, **Davidson BR**
The hepatotoxicity of chemotherapeutic agents used in the treatment of metastatic colorectal cancer.

Abraham AT, Shah SR, Sirivatanauksorn Y, **Davidson BR**
Flutamide suppresses VEGF expression in the HaP-T1 syrian hamster model of advanced pancreatic cancer.
Gastroenterology

Al-Omishy H, O'Riordan DC, Dooley JS, **Davidson BR**
Benign hilar stricture with vascular involvement.
Br J Surg

Papagrigroriadis S, Kurzawinski T, Rolles K, **Davidson B**, Winslet M, Poulter LW
Human hepatic macrophages change phenotype during retrieval and cold storage of liver grafts.
Transplantation

Doctor N, Rolles K, Burroughs AK, **Davidson BR**
Long term outcome of transplantation for unresectable recurrent biliary cystadenocarcinoma
Indian J Gastroenterol

El-Wahsh M, Rai R, Youssef F, **Davidson BR**
Staging laparoscopy for hepato-pancreato-biliary malignancy.
Br J Surg 2000

Mac Dermot K, Ball C, **Davidson BR**
Diffuse extrahepatic bile duct stenosis and biliary atresia in two males with fragile X syndrome.
Eur J Gastro Hepatol

Jiao LR, Havlik R, Seifalian, AS, Yong L, Marseille O, Kerkhoffs W, **Davidson BR**, Habib N
Enhancing portal blood flow with an implanted pump improves liver function and hepatic haemodynamics in a cirrhotic porcine model.
Gut

Doctor N, Horgan LF, Watkinson A, **Davidson BR**
Hepatic artery pseudo-aneurysm after laparoscopic cholecystectomy : treatment by highly selective embolisation.

Hafez T, Moussa MM, Nesim Iris G, Bilgh N, **Davidson BR**, Abdul-Hadi A.
The effect of intraportal infusion of prostaglandin E1 on serum levels and hepatic expression of ICAM-1 in warm ischaemia reperfusion injury
Br J Surg 2004

Francis I, Burroughs AK, **Davidson BR**, Rolles K, Watkinson A
Use of expandable metallic stents in management of suprahepatic vena caval stenosis following liver transplantation.
Clin Rad 2004

Seifalian A, Changani KK, Moore DP, Fuller BJ, **Davidson BR**
Liver retrieval for transplantation : operative procedure and the hepatic microcirculation.
Transplantation 2000

Jiao L, Seifalian A, Havli R, Marseille O, Kerkhoffs W, Solvig J, Jenson S, **Davidson B**, Habib N.
The development and evaluation of an implantable portal pump for augmentation of portal venous blood flow in cirrhosis.
Gut 2004

Bhimani EK, Batten JJ, Taylor Robinson S, Davidson BR, Mathie RT
Nitric oxide and endotoxaemia in human cirrhosis.
Gut 2004

Shah SR, Agarwal AK, **Davidson BR**, Rolles K
Retrieval of the donor organ for orthotopic liver transplantation : an audit.
Br J Surg 2004

Changani KK, Fuller BJ, Bell JD, Taylor Robinson SD, **Davidson BR**
Bioenergetic targeting : fructolysis improves metabolic integrity of stored pig livers during hypoxia.
Cryobiology 2004

Aviv RI, Tibballs, Francis IS, **Davidson BR**
MRI changes following cessation of hormonal stimulation of multiple hepatic adenomas.
Radiology 2004

Wang Yue Hua, **Davidson BR**
Special kinetics of the reduction of MTT to Formazan by viable cells due to acute cytotoxicity of MTT in colorimetric MTT assay.
Cancer Research 2004

Agarwal A, Tibballs J, Koti R, Shah S, Burroughs AK, Patch D, **Davidson BR**, Rolles K
Ruptured splenic artery aneurysms following liver transplantation.
Transplantation 2004

Kanoria S, Jalan R, Davies N, Seifalian A, Williams R, **Davidson BR**
Ischaemic preconditioning of the limb reduces liver ischaemia reperfusion injury.
Hepatology Feb 2004

Khan F, Youssef F, Farhat S, Jackson D, Mallet S, Watkinson A, Tibballs J, **Davidson BR**
Role of diagnostic laparoscopy in staging of colorectal cancer liver metastases – a prospective study.

Br J Surg 2004

Singh Emma, Witte Marisa, Javed S, Watkinson A, Tibballs J, Bhattacharjya S, Davidson BR
Massive intra-hepatic haemorrhage due to polyarteritis nodosa mimicking ruptured liver cell adenoma.

Eur J Gastro Hepatol 2004

Changani K, Seifalian A, Bell J D, **Davidson BR**

The effect of graded hypoxia on rat liver tissue oxygenation and bioenergetics determined in vivo by ³¹P magnetic resonance spectroscopy.

2004

Sirivatanauksorn Y, Sirivaratanauksorn V, Lemoine N R, Williamson RCN,

Davidson BR

The inhibitory effect of thrombospondin –1 in tumour growth of SK-Hep –1 hepatic cancer cells.

Gut 2004

Mayer A, Singh E, Bhattacharjya S, Tibballs J, **Davidson BR**

Intraoperative ultrasound assessment in the management of liver metastases from gastrointestinal stromal tumours – a case report.

Spalding D, Sirivatanauksorn Y, Hartley J, Hochhauser D, **Davidson B**

The formation and removal of platinum-DNA adducts following cisplatin treatment of human hepatocellular and pancreatic cancer cell lines assessed using the Comet assay.

2004

Fusai G, Rolando N, Sabin C, Dhaliwal P, Patch D, **Davidson BR**, Rolles K, Burroughs AK

The incidence of and risk factors associated with the development of severe and prolonged intrahepatic cholestasis following orthotopic liver transplant.

2004

Hafez T, Glantzounis GK, Cox Jane, Sheth H, Yang W, Seifalian AM, Fuller BJ,

Davidson BR

An analysis of bile composition during and after liver warm ischaemia reperfusion injury using proton nuclear magnetic resonance.

Transplantation 2004 (submitted)

Eadie LH, de Cunha D, Seifalian AM, Barbur J, **Davidson BR**, Hawkes DJ.

The effect of image colour distortion on evaluation of donor liver suitability for transplantation. Computers in biology and medicine 2004

Aggarwal R, Bhattacharjya S, Brough HA, **Davidson BR**

Intensive follow up after liver resection for colorectal liver metastases : results of combined serial tumour marker estimations and CT of the chest and abdomen – a prospective study.

Br J Surg Aug 2004

Lane Catherine, Griffiths WJ, Fuller BJ, Davidson BR, Nisar Sonia, Hewes J, Welham K, Patterson LH

A proteomic approach to the identification of cytochrome P450 isoforms in human liver metastases compared to surrounding liver.

Cancer Research 2004.

Khan A, Fuller BJ, Shah S, **Davidson BR**, Rolles K

A prospective randomised controlled trial of donor N Acetyl cysteine administration in human liver transplantation.

Liver Transplant 2004.

Mediwake R, Ogunbiya G, **Davidson BR**, Benyon H
Gastrointestinal manifestations of polyarteritis nodosa.
Quarterly J Med Mar 2004

Junnarkar S, **Davidson BR**
New techniques for the assessment of biliary tract strictures : a critical review.
Dig Dis 2004

Habib M, Hodgson H, **Davidson BR**
A review of the mechanisms of action of glycine and its potential for therapeutic applications.
Pharmaceutical Reviews 2004

Glantzounis GK, Salacinski HJ, Yang W, **Davidson BR**, Seifalian AM
The role of anti-oxidant therapy in liver ischaemia reperfusion injury.
Gut 2004

Hewes J, Riddy D, Woodrooffe A, Morris R, Fuller B, **Davidson B**
An analysis of the integrity and function of isolated primary human hepatocytes from post
hepatectomy specimens with relation to pre-operative chemotherapy.
2004

Dijk S, Sheth H, Glantzounis G, Hafez T, Quaglia A, Jackson D, Goldspink G, Fuller B,
Davidson B
Effect of N-acetyl-cysteine on parameters of liver damage following liver resection.

16. PRESENTATIONS TO LEARNED SOCIETIES

Society	Number of presentations	
Association of Surgeons	6	
Biochemical Society	2	
British Society of Gastroenterologists		28
British Nuclear Medicine Society	1	
Biological Engineering Society	1	
British Society of Clinical Cytology	1	
British Transplant Society	5	
British Microcirculation Society	1	
British Medical Ultrasound Society	3	
British Dietetic Assoc	1	
British Institute of Radiologists	1	
European Pancreatic Club	2	
European Assoc Nuclear Medicine	5	
European Society for Organ Transplantation	1	
International HPB Association	13	
International College of Surgeons	1	
International Symp Ischaemia/reperfusion	2	
International Meet Applications of MAb's	2	
International Soc Colon Rectal Surgeons	1	
International Gastro-Surgical Club	1	
International Assoc Study Liver	1	
Midlands Gastro Soc	1	
Minimally invasive therapy and Allied technologies	5	
Radiology and Oncology		1
Soc Nuclear Medicine	5	
Surgical Research Society	2	
Soc for MR in Medicine	7	
World Assoc HPB Surgery	32	

17. INVITED TALKS

- 1) Intra-operative detection of colorectal cancers using radiolabelled monoclonal antibodies.
Department of Medicine, University of South Carolina Medical School, July 1989.
- 2) Pre-operative imaging of colorectal cancers using monoclonal antibodies.
Department of Surgery, Redlands Memorial Hospital, University of South Carolina
School of Medicine, July 1989
- 3) Intra-operative detection of abdominal tumours using radiolabelled monoclonal antibodies.
Royal Soc of Medicine, Wimpole Street, London 11th Dec 1989
- 4) The antigen expression of colorectal cancers.
Dept of Gastroenterol and Nutrition, Central Middlesex Hospital, London, 14th Feb
1990
- 5) Clinical studies on the use of the anti-epithelial membrane antigen monoclonal antibody
ICR2.
Institute of Cancer Research, Downs Rd, Sutton, Surrey U.K.
- 6) Surgical emergencies in liver disease : Whittington Hospital 16/1/92
- 7) Immunodiagnosis and immunotherapy : an adjunct to surgery?
Invited plenary talk, International College of Surgeons, Cairo 17th Nov 1992.
- 8) Session and debate chairman
Fulminant liver failure : a surgical emergency?
World Assoc HPB Surgery, Paris, June 1993
- 9) Liver Transplantation : Glaxo Medical Forum, Sept 1993
- 10) The presentation and clinical assessment of Cholangiocarcinoma
Hammersmith International Hepatobiliary Course Nov 1993
- 11) What's new in liver transplantation at the Royal Free Hospital
Hammersmith International Hepatobiliary Course Nov 1994
- 12) The artificial liver
International Liver Update Meeting, Royal Free Hospital, June 1994
- 13) The role of HIDA scanning in Hepato-Pancreatico-Biliary Surgery
British Nuclear Medicine Society April 1995
- 14) Carcinoma Head of Pancreas, Pancreas Update, International College of Surgeons, 27th Sept
1996
- 15) Liver transplantation : An update. Czeck Surgical Society, 18th Oct 1996.
- 16) Surgery for carcinoma of the pancreas and cholangiocarcinoma, Eli Lilly
teaching day, 18th July 1997
- 17) Complications following liver transplantation. Hammersmith Hepatobiliary
and Liver transplant Course 3rd Nov 1997
- 1999 Treatment options for colorectal liver metastases
East Anglian Surgical Society, Silsoe, Beds 16th April 1999

Surgical management of hepatocellular carcinoma
Liverpool Hepatobiliary Masterclass May 1999

- 2000 Liver transplantation in the UK
HPB 2000 Liverpool May 2000

Surgery for colorectal liver metastases : what is respectable disease?
Annual Scientific meeting of UK Oncologists
Royal College of Radiologists, 1 Birdcage Walk, London 27th Sept 2000

Liver resection in Oncology
Oncology Seminars, Nth Mid Hospital 17/11/2000

Colorectal cancer : Liver resection and alternative techniques.
Mount Vernon Colorectal Cancer Network Millenium Meeting.
30TH Nov 2000

- 2001 How should liver metastases be diagnosed and treated
Frontiers in Colorectal disease
St Marks postgraduate course Mon 15th Oct 2001

In vivo functional assessment of the liver by spectroscopy and novel therapeutic manipulations
Basic and clinical research forums
Biomedicine UCL, 19th Oct 2001

Orthotopic liver transplantation
Annual Hammersmith HPB course 6th Nov 2001

What does the future hold for transplantation
Royal Society of Medicine 20/3/2002

The management of bile duct strictures
State of the art lecture
BSG 17-20 March 2002

Surgical treatment of cholangiocarcinoma
Imperial College Digestive Diseases Cognate Research Group
27th Sept 2002

Changing boundaries for resection of colorectal liver metastases
Frontiers in Colorectal Disease
St Marks Hospital 14-16th October 2002

Surgical approaches to cholangiocarcinoma
22nd Leeds Gastroenterology course for radiologists
St James Hospital 14th July 2004

Society for Low Temperature Biology
Session chair, Annual meeting 9th Sept 2004

Management of CRC liver metastases
Mount Vernon Cancer Network 9th Sept 2004

Downstaging strategies for colorectal liver metastases
Colorectal cancer quarterly conference
West Park Lodge Hotel 1st Oct 2004

Surgery for HCC
Hepatocellular carcinoma : screening, diagnosis and treatment
1st October 2004

18. JOURNAL LETTERS

- 1) **Davidson BR**, Hurd D, Johnstone MS
Nissen fundoplication and pyloroplasty in the management of gastro-oesophageal reflux in children.
Br J Surg 1987 ; 74 (10) ; 963
- 2) Akoglu M, Hilmioglu F, Balay AR, Sahin B, **Davidson BR**
Endoscopic sphincterotomy in hepatic hydatid disease open to the biliary tree.
Br J Surg 1990 ; 77 (9) : 1073
- 3) **Davidson B R**, Gardham R
Inflammatory abdominal aortic aneurysm : an indication for the retroperitoneal approach.
Surgery 1992 ; 111 (6) : 719-720
- 4) Bhattacharya S, **Davidson BR**
Lipiodol computed tomography should be part of pre-operative assessment for liver transplantation
J Hepatology 1994 ; 20 (2) : 310
- 4) Changani KK, Taylor Robinson SD, Bell JD, Fuller BJ, **Davidson BR**
Noninvasive metabolic assessment of human donor livers : metabolite assignment in 31P magnetic resonance spectroscopy.
Transplantation 1998 ; 65 : 1526-1527

19. BOOK CHAPTERS

- 1) **Davidson BR**, Carratta R, Paccione F, Habib NA
Surgical emergencies in liver disease
In Gastrointestinal emergencies Pt II
Thompson J, Williamson R eds
Baillieres Clinical Gastroenterology Vol 5 No 4
December 1991 pages 737-758
Harcourt Brace Jevanovich Publishers
- 2) Habib NA, **Davidson BR**
Liver Resection
In Leaper DJ, Branicki FJ, eds.
International Surgical Practise, Oxford University Press 1992
- 3) Dawson JW, Morgan J, Barr H, **Davidson BR**, Dean C, Mac Robert A, Savage F, Boulos PB.
Epithelial membrane antigen : a suitable target for an antibody-photosensitiser conjugate in
the treatment of subclinical deposits of cancer.
In Monoclonal Antibodies 2
Epenetos AA Ed
Chapman Hall, London 1993
- 4) **Davidson BR**, Habib NA
The Liver
Operative Surgery and Management (3rd Edition)
Keen G, Farndon JR Eds
Butterworth Scientific 1994.
- 5) **Davidson BR**, Babich J, Deane C
Epithelial membrane antigen as a target for antibody mediated imaging of tumours.
In Targeted Delivery of Imaging Agents, Torchilin P, Editor pp 321-335,
CRC Press 1995
- 6) **Davidson BR**. Pre-operative preparation for surgery. In Clinical Surgery in General. Kirk,
Mansfield and Cochrane Eds.
Churchill Livingstone Publishers 1996
- 7) **Davidson BR**, Bhattacharya S. Pre-operative preparation for surgery.
Chapter 16 pages 171-179
In Clinical Surgery in General. Kirk, Mansfield and Cochrane Eds.
Churchill Livingstone Publishers 1999
- 8) **Davidson BR**
The Liver Chapter 52 pages 931-953
In Russell RCG, Williams NS and Bulstrode CJK Eds.
Bailey and Love's Short Practise of Surgery
Arnold Publishers 23rd Edition 2000
- 9) **Davidson BR**
The Liver
In Russell RCG, Williams NS, Bulstrode CJK Eds
Bailey and Love's Short Practise of Surgery
Arnold Publishers 24th Edition 2002

- 10) RM Kirk, **B Davidson**
Chapter 4 Handling ducts and cavities
In Kirk RM Editor
Basic surgical techniques
5th edition, Churchill Livingstone 2002
- 11) **Davidson BR**, Schneider HJ
Audit, Chapter 42
Clinical Surgery in General
4th Edition 2003
Edited by Kirk RM, Mansfield AO, Cochrane JPS
- 25) Editorial Adviser to
Obi Ebube, Baker Cara, Teo James, Teo Mark
Rapid Surgery
Blackwell Publishing 2003
- 20 **BOOK REVIEWS**
- Davidson BR
Liver Cancer Ed Curley S A
Liver 1999

Editorial Boards

Digestive Surgery 2003 for 3 years

Training courses

A practical guide to Appraisal and Assessment for clinicians and managers
RCPSE Mon 19th March 2001

Fair recruitment training course UCL 12th Nov 2003