

*Curriculum vitae*

**David Andrew WALLER**

***BMedSci BM BS FRCS(Eng) FRCS(CTh) FCCP***

***Consultant Thoracic Surgeon  
Barts Health NHS Trust***

Formerly :

*Consultant Thoracic Surgeon  
Glenfield Hospital Leicester*

*Honorary Consultant Thoracic Surgeon  
Queen's Hospital, Burton-on-Trent,  
Northampton General Hospital and  
Kettering General Hospital.*

*Honorary Senior Lecturer  
Department of Infection, Immunity and Inflammation  
University of Leicester*

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## PERSONAL DETAILS

Name : **David Andrew WALLER**

Date of Birth : 15 June 1962

Place of Birth : Leicester

Nationality : British

GMC registration no : 3069444

### **Education / Qualifications**

2000 FCCP

1996 FRCS (CTh)

1989 FRCS (Eng)

1985 BM BS (Nottm)

1983 BMedSci 1st Class (Nottm)

1980-85 : University of Nottingham Medical School  
Bart Prize for pre-clinical studies.

1976-80 : Rawlins Upper School, Quorn, Leics  
5 A levels @ Grade A ;

### **Awards**

2017 Local level 9 Clinical Excellence Award

## CAREER STATEMENT

Since my appointment as the first pure thoracic surgeon in 1997, I developed the Leicester Unit into an internationally recognised centre. I introduced innovative techniques and systems and published and presented widely. I also, as an Honorary Senior Lecturer, worked in close collaboration with the University in academic development of Thoracic surgeons in training.

In April 2017 I joined the Thoracic Surgical Team at St Bartholomew's Hospital, London. My objectives are to develop the mesothelioma and emphysema surgery services in London and the South East and to use the technological advances available to develop my skills in interventional bronchoscopy and robot assisted thoracic surgery.

**I am the longest serving Pure Thoracic Consultant Surgeon in England.**

### *Malignant pleural mesothelioma*

My main specialist interest is in the treatment of **malignant pleural mesothelioma**. I established Leicester as the national referral centre for surgical treatment and the major centre for research in collaboration with the Academic Department of Thoracic Oncology and the Cancer Research UK Centre. I have over 50 peer reviewed publications and invited book chapters on this subject and have been co-applicant and trial management committee member on the 3 national randomized controlled trials of surgery for mesothelioma, 2 funded by CRUK grants. I have now brought the two on-going trials to Barts to increase referrals from London and the South of England. In collaboration with previous academic oncologists and the present Professor, Dean Fennell, I have been co-supervisor for trainee surgeons in 2 PhD theses and an MD thesis. Our work on innovative surgical techniques has changed the approach to treatment and stimulated new research areas. It is hoped that the current PhD student will be able to continue her academic career in Thoracic Surgery.

### *Surgery for emphysema*

My other specialist interest is in the **surgical treatment of emphysema** and I established Leicester as the largest surgical centre in UK for these procedures. In collaboration with my Academic colleagues in Respiratory Medicine we have published 15 major papers on refinements in surgical techniques and the selection process. In collaboration with the Professor of Respiratory Medicine I secured commercial sponsorship for 2 thoracic trainees to produce MD theses on the underlying disease process and its effects on the outcome of surgery. As a result of our international reputation we were one of the leading centres in the development of new innovative treatment techniques and in conjunction with the Royal Brompton, became one of two centres for a NIHR funded trial of these interventions. I have now enabled Barts to be co-opted as the 3<sup>rd</sup> trial centre

I am **Clinical Lead for the Clinical Commissioning Policy Working Group for Lung Volume Reduction** which will advise NHS England on future plans for commissioning of this treatment.

### *Lung cancer*

In the field of **lung cancer surgery** I have over 50 publications focusing on innovative techniques to improve the resection rate including new selection techniques and the benefits of specialization. I have also worked in collaboration with Professors of Respiratory Medicine and Oncology in areas of cellular biology in relation to survival.

At a national level I have been a member of the **National Cancer Research Institute Lung Clinical Studies Group** from 1999 and was the inaugural Chair of the Mesothelioma subgroup. I have helped to develop many important clinical trials in these areas across a multidisciplinary field. I have also been a Steering Committee member of the British Thoracic Oncology Group since 2001.

### *Practice Guidelines*

I have been invited to be a member of many **Clinical Guidelines** committees for groups including the British Thoracic Society, American College of Chest Physicians, European Respiratory Society and the European Surgical societies. A broad range of subjects have included the management of mesothelioma and lung cancer and benign thoracic conditions.

#### *Postgraduate Education*

I have maintained a particular interest in **postgraduate education**. As a former Regional Training Program Director and SAC member I have helped to define specialist training in Thoracic rather than Cardiothoracic surgery. I have lectured on Postgraduate courses at major international societies in Europe and USA and was this year invited onto the Faculty at the prestigious Massachusetts General Hospital training course for US surgeons. In Europe, I was Director of the Advanced level Thoracic module at the European School of Cardiothoracic Surgery and have organized the Postgraduate Course at the annual meeting of the European Society for Thoracic Surgeons. I was recently chosen by the recipient of a European scholarship in Thoracic Surgery as his mentor during his funded period abroad. I was Conference President when we successfully hosted the ESTS meeting in UK in 2013. In 2016 I was Conference President for the International Mesothelioma Interest Group world meeting in Birmingham.

#### **Private Practice**

I have been a Consultant at the Spire Leicester Hospital for the last 20 years with a weekly session alternating between outpatient clinic and operating list. My annual workload was around 25 cases with a further 10 major cases performed in the NHS hospital due to the requirements for postoperative critical care.

Since moving to London I have privileges with HCA International and practice from the Wellington Hospital, London.

My referral practice covered my NHS area of Leicestershire and Northamptonshire but I also have received national and international referrals for specialist surgery for mesothelioma and lung reduction. I offer the full range of minimally invasive and endoscopic thoracic surgery with special interests in radical surgery for mesothelioma, lung volume reduction for emphysema and minimally invasive correction of pectus deformity.

I also have a busy medicolegal practice acting mainly for the claimant in medical negligence and personal injury cases. The proportion of claimant cases is about 80%.

I am registered

For medicolegal work I am happy to receive instruction on the following areas:

*General thoracic surgery*

*Lung/pleural tumours – lung cancer, mesothelioma*

*Surgery for emphysema*

*Chest wall surgery – including pectus surgery*

*Mediastinal disease*

*Video assisted thoracoscopic surgery*

*Robotic assisted thoracic surgery*

## **Membership of Professional Bodies**

NHS England

*Clinical Lead for Commissioning on Lung Volume Reduction for Emphysema*

Royal College of Surgeons of England

*East Midlands Regional Speciality Professional Advisor 2012-17*

Society of Cardiothoracic Surgeons GB & Ireland -

*Past Elected Trustee/member of Executive*

*Member of Thoracic Sub-Committee 2010-14*

*Unit Representative*

European Society of Thoracic Surgeons –

*Council member 2016-18*

*2013 Annual Conference President*

*formerly United Kingdom Regent*

International Association for the Study of Lung Cancer -

*Program Committee Member World Conference on Lung Cancer meeting 2017/18/19*

*TNM Staging Committees for mesothelioma and nodal staging for lung cancer*

International Mesothelioma Interest Group

*2016 Annual Conference President*

British Thoracic Oncology Group –

*Founder Member of Steering Committee*

European Association of Cardiothoracic Surgery

American College of Chest Physicians

UK Thoracic Surgery Forum

British Medical Association

Medical Protection Society

Membership no : 318551

### **Training Appointments**

SAC for Cardiothoracic Surgery Member 2013-18  
SAC Liaison member Wessex/Oxford Regional Training Program  
Former Program Director – East Midlands Regional Training Program 2008-13  
Director European School of Cardiothoracic Surgery – Thoracic Course

### **Research Appointments**

#### ***Visiting Professorships :***

University of Zurich 2007  
Harvard University, Boston 2015

#### ***National Cancer Research Institute***

Lung Cancer Studies Group Member 1999-2015  
Recent Past Chairman, NCRI Mesothelioma sub-group  
Current member of the Loco Regional Disease subgroup

#### ***Manuscript Reviewer –***

BMJ, Lancet, Annals of Thoracic Surgery, Thorax, European Respiratory Journal, European Journal of Cardiothoracic Surgery, Chest, American Review of Respiratory Diseases

#### ***Abstract Reviewer –***

European Society Thoracic Surgery, Society for Cardiothoracic Surgery GB, IASLC World Lung Cancer Conference

#### ***Surgical Editor –***

Current Medical Literature - Lung Cancer

#### ***Trial Steering Committee Member***

MARS 2 and MARS 1 Trials, MesoVATS trial, British Thoracic Oncology Group

### **Audit Appointments**

*NICE* Specialist Advisor to the Interventional Procedures Programme

*European Respiratory Society* Task Forces for : mesothelioma (co-chair) ; lung cancer and primary spontaneous pneumothorax

*British Thoracic Society* guidelines committees for: fitness for radical treatment of lung cancer and the management of pulmonary nodules

Member of Quality Standards Committee for pulmonary nodules

*American College of Chest Physicians* Panel on Management of Spontaneous Pneumothorax

*European Society for Thoracic Surgeons* working party on mediastinal staging in lung cancer

Surgical advisor to LUCAS National Lung Cancer Screening Trial

SIGN guidelines on management of lung cancer – expert referee

ESTS/IASLC/JACS working party on segmentectomy for lung cancer

### **University Hospitals Leicester Management Appointments**

Head of Service/ Clinical Lead, Thoracic Surgery 2008 - 2015

Member CEA Higher Awards Committees 2014

## **CAREER HISTORY**

1985-86 : JHO posts, City Hospital / University Hospital Nottingham

1986-87 : Lecturer, Dept Human Morphology, University of Nottingham

1987-90 : PostGraduate Training Scheme in Surgery, Leeds Eastern HA

1990 : SHO Cardiothoracic Surgery, Northern General Hospital, Sheffield

1990-92 : Registrar Cardiothoracic Surgery, Killingbeck Hospital, Leeds

1992-94 : Registrar Cardiothoracic Surgery, Freeman Hospital, Newcastle

1994-97 : Senior Registrar Cardiothoracic Surgery, West Midlands Regional HA

1997 to 2017 : Consultant Thoracic Surgeon, Glenfield Hospital, Leicester

1998 to 2017 : Honorary Consultant Thoracic Surgeon, Northampton General Hospital

1999 to 2017 : Honorary Consultant Thoracic Surgeon, Queen's Hospital, Burton -on -Trent

1999 to 2017 : Honorary Consultant Thoracic Surgeon, Kettering General Hospital

April 2017 - : Consultant Thoracic Surgeon, Barts Health NHS Trust, London



## SUMMARY OF CONSULTANT ACTIVITY 1997-2017

At Barts I continue to have a 12PA jobplan with 2 operating days, one outpatient clinic and two MDTs per week. My referral practice covers the multidisciplinary team in Newham University Hospital with supraregional referrals around UK and abroad for mesothelioma surgery and lung volume reduction for emphysema.

My annual workload has been consistently over 300 cases including around 100 major resections for lung cancer and 40 for mesothelioma. In the latest National Lung Cancer Audit 2016 I have achieved one of the highest lung cancer resection rates in UK in Leics and Northants. In latest national SCTS data release I performed the 4<sup>th</sup> highest number of lung cancer operations for individual surgeons in UK.

In the UK Thoracic Surgical Registry 2016 I have performed over 50% of all major surgery for mesothelioma.

In Leicester we negotiated a separate tariff for this surgery with NHSE which has realised an annual income of over £300,000.

During my Consultant career I have performed the following range of operations :

|                                       |            |             |            |
|---------------------------------------|------------|-------------|------------|
| <b>Primary lung cancer resections</b> |            | <b>1770</b> |            |
| Lobectomy – open                      |            | 768         |            |
| Lobectomy – VATS                      |            | 248         |            |
| Segmentectomy – VATS                  |            | 51          |            |
| Segmentectomy – open                  | 165        |             |            |
| Wedge resection                       |            | 118         |            |
| Pneumonectomy                         |            | 158         |            |
| Sleeve lobectomy                      |            | 169         |            |
| Lobectomy/chest wall resection        | 93         |             |            |
| Open&close                            |            | 49          |            |
| <b>Mesothelioma resections</b>        |            | <b>538</b>  |            |
| Extrapleural pneumonectomy            |            | 143         |            |
| Pleurectomy/decortication – open      |            | 257         |            |
| Pleurectomy – VATS                    |            | 113         |            |
| Localized chest wall resection        | 25         |             |            |
| <b>Emphysema surgery</b>              |            | <b>386</b>  |            |
| Lung volume reduction surgery         | 278        |             |            |
| Bullectomy                            |            | 84          |            |
| Endobronchial volume reduction        |            | 24          |            |
| <b>Pneumothorax surgery</b>           |            | <b>441</b>  |            |
| <b>Empyema surgery</b>                |            | <b>418</b>  |            |
| -open                                 |            | 199         |            |
| -VATS                                 |            | 219         |            |
| <b>Mediastinal tumours</b>            | <b>160</b> |             |            |
| -open                                 |            | 84          |            |
| -VATS                                 |            | 76          |            |
| <b>Pectus surgery</b>                 | <b>88</b>  |             | -- ---open |
|                                       |            | 44          |            |
| -VATS                                 |            | 44          |            |
| <b>Therapeutic bronchoscopy</b>       | <b>335</b> |             |            |
| - Laser                               |            | 274         |            |
| - stents                              |            | 61          |            |

## **MEDICOLEGAL PRACTICE**

**I have been actively involved in medico-legal practice for the last two decades. I have produced reports for both claimants and defendants (at a ratio of around 80:20 ) in areas of personal injury (trauma/occupational) and medical negligence in all aspects of thoracic surgery. In the last 12 months I have been involved in 10 such actions but these reports are increasing. All of these cases have been settled out of Court. I have a special interest in asbestos related diseases and thoracic trauma.**

**I am a member of several medicolegal agencies.**

**I am happy to consult with clients at the Wellington Hospital, London or at my home base in the Sheffield area.**

## **GENERIC COURSES**

Appraisal, Career Guidance and Personal Counselling Skills, 26/27 June 2003

West Retford Hotel, Notts

Managing Stress, Giving Constructive Feedback, Dealing with Conflict and Confrontation. 2/3 October 2003. QMC, Nottingham.

Counselling and Helping Skills Revisited, 8 October 2003, Don Valley House, Sheffield

Assertiveness and Negotiation Skills. 20/21 November 2003, Chesterfield and North Derbyshire Hospital.

Training the Trainers, March 2009, Royal College of Surgeons of England

Strengthened Appraiser Training to Support Revalidation, 2010, Highpoint, Leicester

National Advanced Communication Skills Training, December 2010, Holthorpe, Leics

ARCP Chair Training, March 2012, Loughborough

Equality & Diversity Module 2012, UHL eLearning

Equality & Diversity Training 2014, RCS (Eng)

Mastering Professional Interactions 2015, MPS

Assertiveness without aggression 2016, Grow Medical, London

Interpersonal Skills & Dealing with Difficult People 2016, Grow Medical, Manchester

## RESEARCH

I am recognised as an international expert in thoracic surgery in particular for *malignant pleural mesothelioma*. I have published over 50 papers on the surgical treatment of this condition and I have been part of international expert panels producing many reviews and guidelines on management. I have given invited lectures at all the major Cardiothoracic and Respiratory Society meetings in Europe and America. I have co-supervised higher degrees and been co-applicant on national grant applications.

### 1. Mesothelioma

#### *National Cancer Research Institute Clinical Studies Group*

I chaired the NCRI mesothelioma subgroup from its inception in 2008 for 5 years and organized 9 meetings and presented the group's portfolio at the NCRI National Conference. During my chairmanship we completed the MS01 and MARS feasibility studies, expanded the MesoVATS trial and developed the PIT and SWAMP protocols. .

#### *Surgical Trials*

##### *MARS trial*

Glenfield was the main surgical centre for radical surgery within the National CRUK funded (£100,00) trial to evaluate this operation. I was principal surgical investigator and co-author of this feasibility study which has completed and the results published in Lancet Oncology. I

##### *MARS 2 trial*

£50,000 CRUK grant. Trial Management Committee member and co-applicant. Lead surgeon. Glenfield is one of two national referral centres for the randomized trial of radical surgery in mesothelioma which began in April 2015.

##### *MesoVATS trial*

I was one of the three surgeons and member of the steering committee involved in the national BUPA foundation funded to evaluate thoracoscopic debulking surgery in mesothelioma

##### *MesoTRAP trial*

I am a Co-applicant on a trial proposal to NIHR Research for Patient Benefit for £80,000. This is a randomized trial assessing the role of VATS decortication in the management of the trapped lung.

##### *Synthetic lethal targeting of the CDK4/6 pathway in CDKN2A mutated mesothelioma:*

A proof of concept Study to support a phase IIA clinical trial – co-applicant in a Mesothelioma UK-BLF Mesothelioma Research Grant of £150,000

#### *Higher Degrees*

In conjunction with The Academic Department of Oncology at Leicester Royal Infirmary we have investigated the molecular biology of malignant mesothelioma to determine prognostic indicators and potential sites for novel therapies.

I established a Surgical Research Fellow post funded jointly by a LRI grant and Trust funds. The two past incumbents have obtained MD (D Stewart) and PhD (J Edwards) degrees. I am currently co-supervisor for A Sharkey who is undertaking an MD thesis in conjunction with Prof D Fennell. We have obtained a £50,000 research grant from the Royal College of Surgeons of England.

#### *Departmental research*

In Leicester and now at Barts we receive referrals from throughout the UK and parts of Europe for consideration of radical surgery for mesothelioma. In our program over the last decade we have pioneered and evaluated new surgical techniques. These include video

assisted cervical thoracoscopy for staging ; video assisted pleurectomy for minimally invasive debulking and lung sparing total pleurectomy for radical excision for mesothelioma. The latter two techniques have been adopted for two national trials of mesothelioma treatment. Our work has contributed to a change the surgical approach to this disease.

## **2. Lung Cancer**

### ***National Cancer Research Institute Clinical Studies Group***

I was a member of the Lung CSG 1999- 2015 during which time I gave surgical advice to the protocol development of many trials in early/resectable lung cancer including The Big Lung Trial and LU22. I continue as a member of the LORD (Locoregional disease) subgroup.

### ***Surgical Trials***

I was a member of the steering committee for the Big Lung Trial and helped Glenfield to be one of the greatest contributors. I was first author of the paper recording the role of chemotherapy in the adjuvant setting. We also contributed to LU22 and the EORTC 08941 trial of induction chemotherapy in stage IIIA disease. I am a co-author of the latest LACE meta-analysis of adjuvant chemotherapy in NSCLC.

### ***Departmental research***

We have concentrated our study into methods of increasing the lung cancer surgical resection rate. Our work has focussed on the group of patients with poor lung function who would conventionally be denied surgery. We have published studies using parenchymal sparing techniques, video assisted surgery and applying the principles of lung volume reduction surgery. Our unit has one of the highest resection rates in UK and the examples we have set have contributed to a national increase in surgery for lung cancer.

## **3. Lung Volume Reduction for Pulmonary Emphysema**

### ***Surgical Trials***

At Glenfield we pioneered new surgical treatments for emphysema including video assisted surgery and endobronchial valve treatment.

We were part of a multicentre prospective randomized clinical trial (with MREC approval) to evaluate the benefits of this procedure over conventional medical therapy.

### **CELEB trial**

In co-operation with the Royal Brompton Hospital we have been granted funding from NIHR for Research for Patient Benefit Funding for a comparative study between surgical and endobronchial lung volume reduction. I am now continuing this trial at Barts.

### ***Higher Degrees***

I successfully obtained funding from company sponsorship (Astrazeneca) to fund a Research Fellow (P Vaughan) in a MD thesis : “ An investigation of pulmonary vascular remodelling in severe COPD and its potential relationship to the outcome of LVRS “. This was awarded by the University of Leicester.

### ***Departmental research***

In nearly 400 procedures over a 17 year period we have evolved a surgical strategy which differs from the conventional method but which has been shown to give longer lasting benefit. We continue a longitudinal assessment of health status changes in the postoperative period and continue to refine technical details of the operation. I have published 15 peer reviewed articles on this subject and several invited articles. Our publications have influenced the international approach to this disease.

#### **4. Surgery for spontaneous pneumothorax**

I conducted the first randomized controlled trial of video assisted thoracoscopic surgery (VATS) in this subject and have subsequently completed 11 publications.

I was an invited expert in the production of the ACCP Consensus Statement on the management of pneumothorax and this year completed the ERS Management Guidelines.

#### **5. Surgery for pleural empyema**

I described a novel surgical technique for the treatment of empyema by pleural decortication using VATS and have published 5 articles on this subject. This year I was invited to write the related chapter in the prestigious "Shield's Thoracic Surgery" for an international audience and participated in the EACTS Statement on the management of pleural empyema

#### **6. Novel applications of VATS**

I have continued to innovate in the use of VATS and have extended its use to the placement of left ventricular pacing lead in heart failure, in conjunction with the Academic Cardiologists in Leicester, and in the resection of mediastinal tumours

#### **7. Service reconfiguration**

I have published audits demonstrating the benefits of specialization within cardiothoracic surgery and presented prize-winning data at the World Lung Cancer Conference on the subject. This evidence has been used to support a change in the cardiothoracic training system and by commissioning bodies to restructure the Thoracic Surgical service in UK.

## **TEACHING**

### **European Association for Cardiothoracic Surgery**

I have been Director of the **European School of Cardiothoracic Surgery**

Advanced level Thoracic course in Bergamo, Italy since 2000. I have organized the European faculty and redesigned the week-long program of lectures, seminars and live operating. I give lectures in mesothelioma surgery and medical ethics.

### **European Society of Thoracic Surgeons**

I have been organiser of the Collaborative Postgraduate Symposium on General Thoracic Surgery at the ESTS 2012, 2013, 2016 and 2017 Annual Meetings. The last course encompassed the inaugural "World Cup of Thoracic Surgery"

### **British Thoracic Oncology Group**

I was the foundation organiser of the BTOG multi-disciplinary Thoracic Oncology Course

### **Royal College of Surgeons of England Higher Surgical Training Skills Course**

I have been a Faculty member for this training course in thoracic surgery.

### **Birmingham Cardiothoracic Review Course**

I have been a Course Director on this national review course for surgeons undertaking the FRCS(CTh) examination since 1996.

I have also supervised the Thoracoscopic Workshop.

### **Clinical Teacher /Mentor**

I have received medical students in Years 3 to 5 from Leicester Medical School for clinical attachments and I was a Mentor for a group of students for their Clinical Applications Module. I also have given revision lectures on Thoracic Surgery for final year students.

### **Leicester Nursing ITU course**

I lecture on the intensive care aspects of Thoracic Surgery to nursing students both at Glenfield Hospital and at De Montfort University.

## **PERSONAL INTERESTS**

**Cricket**  
**Sports statistics**  
**Psychology**  
**History**  
**Gardening**  
**Travel**  
**Food**

## **REFEREES**

Mr Stephen Edmondson  
Director of Surgery /Consultant Cardiothoracic Surgeon  
Barts Health NHS Trust

Mr Kelvin Lau  
Clinical Lead / Consultant Thoracic Surgeon  
Barts Health NHS Trust

Dr Jeremy Steele  
Consultant Medical Oncologist  
Barts Health NHS Trust

Prof Ken J O'Byrne  
Medical Oncologist  
Queensland University of Technology, Brisbane, Australia

Prof Walter Weder  
Chair of Division of Surgery  
University Hospital, Zurich, Switzerland