

# **CURRICULUM VITAE**

**EMMANUEL M. KEFALOYANNIS**

***ASSOCIATE PROFESSOR OF THORACIC SURGERY  
MEDICAL SCHOOL  
UNIVERSITY OF CRETE***

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## **PERSONAL INFORMATION**

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## **MEDICAL EDUCATION**

**1991 – 1997:** Admission following Panhellenic Examinations to the Medical School of the University of Athens.

**July 28, 1997:** Degree from the Medical School of the University of Athens. **Grade: VERY GOOD.**

**September 8, 1997:** Granting of a license for the medical profession by the Prefecture of Athens (East Athens Sector, Directorate of Health and Public Hygiene) with decision number 25615.

**22 May 2007:** PhD from the Medical School of the University of Athens. **Grade: EXCELLENT.**

**Thesis title "MORPHOMETRIC AND HISTOCHEMICAL STUDY OF THE MECHANICAL PROPERTIES AND STRUCTURE OF THE THORACIC AORTA OF MAMMALS"**

**24 March 2008:** Granting of a license for the medical specialty of Thoracic Surgery by the Prefecture of Athens (East Athens Sector, Directorate of Public Health) with decision number 1685.

## **A. MEDICAL EXPERIENCE**

**October 2020 – today:** Associate Professor of Thoracic Surgery at the Medical School of the University of Crete.

**October 2020 – today:** Director of the Thoracic Surgery Clinic at PAGNI.

The University Clinic of Thoracic Surgery undertakes about 180 operations per year and treats more than 400 patients per year. It covers about 800,000 population on a permanent basis exceeding 2 million during the summer season.

I perform about 90% of operations with the help of video-thoracoscopy (VATS) including anatomical resections, a technique in which I have gained specialization and extensive experience.

I have performed more than 3000 operations as a specialized thoracic surgeon, of which about 1200 involve anatomical lung resections and 160 robotic surgeries.

I also have extensive clinical experience in the treatment of airway diseases using rigid and flexible bronchoscope (stents, resection of tumors with diathermy, navigational bronchoscopy).

I started the Robotic Thoracic Surgery program in Great Britain in 2016 with great success and a mortality rate of 0%. The majority of cases concerned anatomical resections (segmentectomy, lobectomies, bronchial sleeve), resections of mediastinal tumors and diaphragm plication.

**July 2015 – October 2020:** Clinical Lead of the Thoracic Surgery Clinic at St. James' University Hospital in Leeds, UK.

**October 2016 – October 2020:** Lead of the Robotic Thoracic Surgery program at St. James' University Hospital in Leeds, UK.

**May 2011 – July 2015:** Consultant at the Thoracic Surgery Clinic at St. James' University Hospital in Leeds, UK.

**October 2013 – October 2020:** Honorary Lecturer, University of Leeds.

The Thoracic Surgery Clinic at St. James University Hospital has 32 hospital beds, 4 of which are High Dependency and performs approximately 1400 thoracic operations annually with a total of 1700 patient admissions.

I participated in 6 regional oncology boards (MDTs) covering 17 hospitals, as a consultant thoracic surgeon.

The department of thoracic surgery covered the emergency department and the Trauma Center daily and on a 24-hour basis with more than 400 referrals per year, providing extensive experience in handling this category of patients with the application of the Rib Fixation method, where there was an indication.

**March 2008 – May 2011:** Clinical Fellow at Thoracic Surgery at St. James' University Hospital.

**Apr. 2007 – Dec. 2007:** Resident in Cardiac Surgery at Evangelismos Hospital.

**Oct. 2006 – Apr. 2007:** Six-month educational leave at the Thoracic Surgery Clinic at St. James' University Hospital and at the Adult and Paediatric Cardiac Surgery Clinic of Leeds General Infirmary in Leeds, England.

**Sept. 2004 – Oct. 2006:** Resident in Thoracic Surgery at Evangelismos Hospital.

**Dec. 2003 – Aug. 2004 :** Resident in Cardiac Surgery at the Onassis Cardiac Surgery Center.

**Sept. 2000 – Sept. 2003:** Resident in General Surgery at Sismanoglio Hospital, Athens.

**Dec. 1998 – July. 2000:** Military service as a doctor at the 251st General Hospital and at the clinic of the 126th Combat Wing of Elefsina.

**Sept. 1997 – Oct. 1998:** Rural Service at the Health Center of Paros.

## **B. SCIENTIFIC WORK**

### **a. DOCTORAL DISSERTATION**

**22 May 2007:** PhD from the Medical School of the University of Athens. **Grade: EXCELLENT.**

Topic **"*MORPHOMETRIC AND HISTOCHEMICAL STUDY OF THE MECHANICAL PROPERTIES AND STRUCTURE OF THE THORACIC AORTA OF MAMMALS*"**

### **b. PUBLICATIONS IN INTERNATIONAL JOURNALS**

**1. Advancements in the Management of Postoperative Air Leak following Thoracic Surgery: From Traditional Practices to Innovative Therapies**

Medicina (Kaunas) 2024 May 13

**2. Impact of the type of initial intervention on the outcomes of lung volume reduction for emphysema: a propensity matched study**

Ann Transl Med 2022 Dec;10

**3. Poor preoperative quality of life predicts prolonged hospital stay after VATS lobectomy for lung cancer**

Eur J Cardiothorac Surg. 2021 Jan 4.

**4. Eurolung risk score is associated with long-term survival after curative resection for lung cancer**

J Thorac Cardiovasc Surgery Mar. 2021

**5. A risk model to predict 2-year survival after video-assisted thoracoscopic surgery lobectomy for non-small-cell lung cancer**

Eur J Cardiothorac Surg. 2020 Apr 1.

**6. Ninety-day hospital costs associated with prolonged air leak following lung resection**

Interact Cardiovasc Thorac Surg. 2020 Oct 1

**7. The Impact of a Newly Established Multidisciplinary Team on the Interventional Treatment of Patients With Emphysema**

Clin. Med. Insights Circ Respir Pulm Med 2019, June 19

**8. Ninety-day hospital costs for anatomic lung resections.**

Eur J Cardiothorac Surg. 2019 Mar 1.

**9. Ipsilateral pulmonary infarction after major lung resection.**

Asian Cardiovasc Thorac Ann. 2018 Jun;26(5):371-376.

**10. Use of Bioglue™ to seal a difficult to treat air leak in a complicated empyema patient.**

Gen Thorac Cardiovasc Surg. 2018 Oct;66(10):577-580.

**11. Do pleural adhesions influence the outcome of patients undergoing major lung resection?**

Interact Cardiovasc Thorac Surg. 2017 Oct 1;25(4):613-619.

**12. Totally Endoscopic (VATS) First Rib Resection for Thoracic Outlet Syndrome.**

Ann Thorac Surg. 2017 Jan;103(1):241-245.

**13. The evolution of intraoperative conversion in video assisted thoracoscopic lobectomy.**

Ann R Coll Surg Engl. 2017 Feb;99(2):129-133.

**14. Operating room scheduling is not associated with early outcome following elective anatomic lung resections: a propensity score case-matched analysis.**

Eur J Cardiothorac Surg. 2017 Apr 1;51(4):660-666.

**15. Penetrating chest injury caused by self-inflicted crossbow arrow traversing the hemithorax.**

Eur J Cardiothorac Surg. 2016 Mar 17.

**16. Lung herniation after uniportal video-assisted thoracic surgery lobectomy presenting with subcutaneous surgical emphysema.**

Eur J Cardiothorac Surg. 2016 Apr;49(4):1288.

**17. Real-time monitoring of a video-assisted thoracoscopic surgery lobectomy programme using a specific cardiopulmonary complications risk-adjusted control chart.**

Eur J Cardiothorac Surg. 2016 Apr;49(4):1070-4.

**18. A risk-adjusted financial model to estimate the cost of a video-assisted thoracoscopic surgery lobectomy programme.**

Eur J Cardiothorac Surg. 2016 May;49(5):1492-6.

**19. Performance of wider parenchymal lung resection than preoperatively planned in patients with low preoperative lung function performance undergoing video-assisted thoracic surgery major lung resection.**

Interact Cardiovasc Thorac Surg. 2016 Dec;23(6):889-894.

**20. Novel technique in managing bronchobiliary fistula in adults: Endobronchial embolization using silicone spigots in 2 cases**

Ann Thorac Med. 2015 Jan-Mar; 10(1): 67–68.

**21. Major morbidity after video-assisted thoracic surgery lung resections: a comparison between the European Society of Thoracic Surgeons definition and the Thoracic Morbidity and Mortality system.**

J Thorac Dis. 2015 Jul;7(7):1174-80.

**22. High-risk patients and postoperative complications following video-assisted thoracic surgery lobectomy: a case-matched comparison with lower-risk counterparts**

Interact Cardiovasc Thorac Surg. 2015 Dec;21(6):761-5.

**23. An aggregate score to predict the risk of large pleural effusion after pulmonary lobectomy.**

Eur J Cardiothorac Surg. 2015 Jul;48(1):72-6.

**24. The use of Thopaz pump in the management of air leaks. A transition from analogue to standardised digital scoring. Experience of first 100 cases from a single institution.**

*Interactive CardioVascular and Thoracic Surgery* 2009 Aug;9(S1):S31

**25. Survival in solitary sternal metastasis from breast cancer: surgical approach and clinical outcome**

*Interactive CardioVascular and Thoracic Surgery* 2009 Aug;9(S1):S36

**26. Simultaneous bilateral carotid endarterectomy under local anesthesia**

Asian Cardiovascular and Thoracic Annals, 2008 Aug;16(4):327-8.

**27. Oncocytic adrenocortical carcinoma with recurrent metastases**

*World Journal of Surgical Oncology 2008 Dec 17;6(1):134.*

**28. Massive bronchogenic cyst mimicking ischaemic chest pain**

*European Journal of Cardiothoracic Surgery 2008 Dec;34(6):1260-1.*

**29. Morphometric study of stress-induced changes in aortic wall microstructure**

Δημοσιεύθηκε στον τόμο των αποτελεσμάτων του διεθνούς συνεδρίου Biomedical Engineering, BioMED 2007, 14-16 February 2007, Innsbruck, Austria.

**30. Asymptomatic chest wall hodgkin disease mimicking fibrosing mediastinitis**

*Journal of Thoracic and Cardiovascular Surgery Feb 2006; 131(2):e1-2*

**31. Mediastinal tuberculous lymphadenitis presenting as superior vena cava syndrome**

*Journal of Thoracic and Cardiovascular Surgery Jun 2006; 131(6):e11-2.*

**32. A structural basis for the aortic stress-strain relation in uniaxial tension**

*Journal of Biomechanics, Jul 20 2005; 39(9):1651-62.*

**33. Micro-architectural changes of the aortic wall under mechanical stress**

Δημοσιεύθηκε στον τόμο των αποτελεσμάτων του διεθνούς συνεδρίου European Society for Surgical Research (12 – 15 Μαΐου 2004, Αθήνα, Ελλάδα)

**34. First results of the inguinal hernia repair with the prolene hernia system**

*European Surgical Research 2002;34(S.1) p.9*

## **ORGANIZATION OF CONFERENCES**

- 1) 7<sup>th</sup> ADVANCED VATS AND THORACIC ENDOSCOPY COURSE:**  
25-26 February 2015, St James's Hospital, Leeds, UK
- 2) 8<sup>th</sup> ADVANCED VATS AND THORACIC ENDOSCOPY COURSE:**  
22-23 February 2017, St James's Hospital, Leeds, UK
- 3) 9<sup>th</sup> ADVANCED VATS AND THORACIC ENDOSCOPY COURSE:**  
27-28 February 2019, St James's Hospital, Leeds, UK  
During the course I presented robotic surgery live from the operating room to the lecture theater.

## ***ΜΕΤΕΚΠΑΙΔΕΥΤΙΚΑ ΕΡΓΑΣΤΗΡΙΑ***

- 1) 9<sup>th</sup> ADVANCED VATS AND THORACIC ENDOSCOPY COURSE:**  
27-28 February 2019, St James's Hospital, Leeds, UK
- 2) Advanced Robotic course in Thoracic Surgery**  
16 – 17 November 2017, Rouen, France
- 3) Robotic cadaveric course in Thoracic Surgery**  
13 March 2017, Paris, France
- 4) 8<sup>th</sup> ADVANCED VATS AND THORACIC ENDOSCOPY COURSE:**  
22-23 February 2017, St James's Hospital, Leeds, UK
- 5) Robotic Thoracic Technology & Surgeon-Led Procedure course**  
28 – 29 September 2016, ORSI Melle, Belgium
- 6) 1st UK Thoracic Robotic Surgery - Conference and Hands-on Cadaveric Dissection Course**  
9 – 10 February 2016, Newcastle, UK
- 7) 7<sup>th</sup> ADVANCED VATS AND THORACIC ENDOSCOPY COURSE:**  
25-26 February 2015, St James's Hospital, Leeds, UK
- 8) 6<sup>th</sup> ADVANCED VATS AND THORACIC ENDOSCOPY COURSE:**  
27-28 February 2013, St James's Hospital, Leeds, UK
- 9) 5<sup>th</sup> ADVANCED VATS AND THORACIC ENDOSCOPY COURSE:**

23-24 February 2011, St James's Hospital, Leeds, UK

**10) 2<sup>ND</sup> LEEDS BASIC VATS WORKSHOP**  
22 September 2009, Leeds, UK

**11) 1<sup>ST</sup> LEEDS BASIC VATS WORKSHOP**  
20 July 2009, Leeds, UK

**12) 4<sup>TH</sup> ADVANCED VIDEO-ASSISTED THORACOSCOPY AND  
THORACIC ENDOSCOPY COURSE**  
25-26 February 2009, Leeds, UK

**13) ADVANCED MINIMALLY INVASIVE OPERATING TECHNIQUES  
IN THORACIC SURGERY**  
15-16<sup>th</sup> October 2008, Hamburg, Germany

### **DISTINCTIONS**

Scholarship from the State Scholarship Foundation (IKY) to cover part of the costs of the experimental part of my thesis on the subject:

***"MORPHOMETRIC AND HISTOCHEMICAL STUDY OF THE  
MECHANICAL PROPERTIES AND STRUCTURE OF THE  
MAMMALIAN THORACIC AORTA"***

### **MEMBER OF MEDICAL ASSOCIATIONS**

- Medical Association of Heraklion
- Hellenic Society of Thoracic, Heart and Vascular Surgery
- European Society of Thoracic Surgeons (ESTS)
- General Medical Council – Μ. Βρετανία (GMC)
- European Association of Cardio-Thoracic Surgeons (EACTS)
- Society of Thoracic Surgeons (STS)