

Pavlos M. MYRIANTHEFS

Professor of Critical Care and Pulmonary Medicine

**Laboratory of Pulmonary Function Testing, Bronchoscopy & Hyperbaric Medicine,
Surgical Section**

**“Agiou Anargyroi” Hospital, Noufaron & Timiou Stavrou Kaliftaki, Nea Kifissia, 14564,
Athens, Greece**

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TEACHING

Undergraduate

1. First Aid, 3rd Semester
2. Critical Care, 7th Semester
3. Pulmonology – Nursing in Pulmonary Diseases, 7th Semester:
4. Mechanical Ventilation, 8th Semester
5. Emergency Medicine 8th Semester

Postgraduate

Advanced Clinical Nursing»,

1. Specific Therapies in Intensive Care, 2nd Semester, “Advanced Clinical Nursing”
2. Transporting of the Critically Ill, prehospital Care and Telemedicine, 3rd semester, , “Advanced Clinical Nursing”
3. Sleep breathing disorders, 3rd semester, “Advanced Clinical Nursing”
4. Specific topics in Emergency Medicine, 3rd semester, “Advanced Clinical Nursing”

EDUCATION

- Doctoral Diploma: National and Kapodistrian University of Athens, School of Medicine, 2001. “Pro-inflammatory cytokines during mechanical ventilation”
- Research Fellowship: Feinberg School of Medicine, Northwestern University. Division of Pulmonary and Critical Care Medicine. Mechanisms of lung edema clearance
- Subspecialty: Critical Care, 2002
- Specialty: Pulmonary Medicine 1997
- First Degree: MD, National and Kapodistrian University of Athens, School of Medicine, 1992

RESEARCH INTERESTS

- Lung stress during mechanical ventilation - Ventilator Induced Lung Injury (VILI)
- Severe infections and sepsis in the ICU, Immunoparalysis
- Health care quality and patient safety
- Pulmonary Edema and ARDS
- Sleep breathing disorders
- Basic and advanced life support and
- First aid emergency medicine
- Pulmonary hypertension

RESEARCH PROGRAMMES

Primary investigator

8 supported by the Special Account for Research Grants of the National and Kapodistrian University of Athens (all completed with international publications)

1. Immune status in patients with congestive heart failure. **2006**
2. Cytokine profile in patients with sepsis and septic shock. **2007**
3. Cytokine profile in patients undergoing coronary angiography. **2008**
4. Systemic inflammatory response syndrome in patients undergoing coronary angiography. **2009**
5. Pharmacokinetics of voriconazole in critically ill patients. **2009**

6. Immune response of healthy volunteers after acute exposure to alcohol. **2010**
7. Ex-vivo investigation of whole blood immune response after exposure to LPS and SEB and supplementation of immunoglobulins. **2011**
8. Investigation of osteoporosis in critically ill patients using b-CrossLaps και P1NP markers. **2013**

Collaborator

11 supported by Pharmaceutical companies, Seventh Framework Program for Research and Development - European Union, Scientific Societies, Ministry of Health, other Organizations

1. Culture of L929 cells and measurement of TNF- α in critically ill cancer patients compared non cancer patients, **Hellenic Cancer Society**, 1997
2. Reduction fo FVC in 3rd age Greeks. **Ministry of Health**. 1998
3. Spirometric reference values and prediction equations in children, adults and athletes,; **OPAP**, 2004
4. Immune status evaluation in patients with sepsis and timeframe of immune recovery. **ESICM**, **2006**
5. **ATTAIN 2/ 0019**. A phase III, randomized, double-blind, parallel-group, multinational btrial of intravenous Telavancin versus Vancomycin for treatment of hospital-acquired pneumonia with focus on patients with infection due to methicillin resistant *Staphylococcus aureus*.: **Theravance**, 2005
6. **ZEPHYR study**. Nosocomial Pneumonia With Suspected Or Proven Methicillin-Resistant Staphylococcus Aureus (MRSA) (ZEPHYR).: **Pfizer** 2005
7. «**ICE**» study A8851019. "Open-Label, Non-Comparative, Study Of Intravenous Anidulafungin, Followed Optionally By Oral Voriconazole Or Fluconazole Therapy, For Treatment Of Documented Candidemia/Invasive Candidiasis In Intensive Care Unit Patient Populations": **Pfizer** 2007
8. **ESTIMATOR**. Real life study of antifungal treatment in Greek ICUs: Therapeutic strategy and hospital resource utilization.: **Astellas A.E.B.E**, 2012
9. **MagicBullet**: Phase IV study, multicenter, prospective, randomized 1:1, open, non inferiority. "Optimisation of treatment with off-patent antimicrobial agents of ventilator-associated pneumonia (VAP)" Χορηγός: **Seventh Framework Program for Research and Development** - European Union - Directorate General for Research and Innovation, 2012
10. **AIM 2 study**. A Prospective, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Evaluate the Safety and Efficacy of BAY 41-6551 as Adjunctive Therapy in Intubated and Mechanically-Ventilated Patients with Gram-Negative Pneumonia.: **Bayer Healthcare Pharmaceuticals Inc**, 2012
11. **HELICAS study**: **PFIZER**, 2015

INTERNATIONAL COLLABORATIONS (Clinical Studies endorsed by the European Society of Intensive Care Medicine – ESICM or MRC England): 11

1. **CRASH** study (2000), Corticosteroid randomization after significant head injury
2. **CRYCO** study, (2001), **CRYstalloids or Colloids**, Use of volume expanders in the intensive care unit
3. **SOAP** study, (2004) Sepsis Occurrence in the Acutely ill Patient
4. **Immunomonitoring**, (2004) Working Group ESICM
5. **EU-VAP** study (2005) Ventilator Associated Pneumonia – VAP
6. **EPIC II** study (2008) the extended study of prevalence of infections in intensive care
7. **Eurobact**[®]: (2009), Prevalence and prognosis of hospital-acquired bacteremia in ICU
8. **GLI** (2010), Global Lungs Initiative for Lung Function
9. **DALI Study** (2012), Defining Antibiotic Levels in Intensive care unit patients
10. **ELOISE Study** (2012), European Mortality & Length of ICU Stay Evaluation
11. **ICON** (2012), Intensive Care Over Nations audit

SCIENTIFIC PUBLICATIONS

Abstracts – Posters and Oral presentations in Scientific Conferences

114 in International Medical Congresses/Symposia (1st author 38, 2nd author 26, last author 10)

172 in Greek Medical Congresses/Symposia (1st author 28, 2nd author 47, last author 26)

Peer Reviewed Articles in Scientific Journals

112 in International Medical Journals and **3** in International Medical Congresses Proceedings (1st author 30, 2nd author 15, 3rd author 14, last author 14)

150 in Greek Medical Journals and Greek Medical Congresses Proceedings (only author 16, 1st author 40, 2nd author 26, last author 42)

1. Dagadaki O, Birbas K, Mariolis T, Baltopoulos G, **Myrianthefs P**. The necessity of the periodical ultrasound assessment of the peripheral venous system in the Intensive Care Unit patients. *Ultrasound in Medicine and Biology* 2019; In press
2. Fika S, Nanas S, Baltopoulos G, Charitidou E, **Myrianthefs P**. A novel mortality prediction model for the current population in an adult intensive care unit. *Heart & Lung; The Journal of Acute and Critical Care*. 2018 Jan - Feb;47(1):10-15.
3. Papagiannopoulou A, Stergiannis P, Katsoulas T, Intas G, **Myrianthefs P**. Characteristics and survival rates in ward patients requiring evaluation by Intensivist in Greece. *Advances in Experimental Medicine and Biology* 2018; In press
4. Gavala A, **Myrianthefs P**. Comparison of point-of-care versus central laboratory measurement of hematocrit, hemoglobin, and electrolyte concentrations. *Heart & Lung; The Journal of Acute and Critical Care*. 2017; Jul - Aug;46(4):246-250.
5. Gavala A, Makris K, Korompeli A, **Myrianthefs P**. Evaluation of bone metabolism in critically ill patients using CTx and PINP. *BioMed Research International*. 2016;2016:1951707. doi: 10.1155/2016/1951707.
6. Papandreou V, Kavrochorianou N, Katsoulas T, **Myrianthefs P**, Venetsanou K, Baltopoulos G. Adrenergic Effect on Cytokine Release After Ex Vivo Healthy Volunteers' Whole Blood LPS Stimulation. *Inflammation* 2016; 39(3):1069-75.
7. Korompeli A, Muurlink O, Gavala A, **Myrianthefs P**, Fildissis G, Baltopoulos G. Ad libitum and restricted day and night sleep architecture. *Chronobiology International* 2016; 33(1): 124-127.
8. Gavala A, **Myrianthefs P**, Venetsanou K, Baltopoulos G, Alevizopoulos G. Alcohol effects on TNF- α and IL-10 production in an ex-vivo model of whole blood stimulated by LPS. *Journal of Psychiatry: Open Access* 2015; 18(6): 1000339
9. Konstantinou, EA, Katsoulas TA, Fildissis G, **Myrianthefs PM**, Kiekkas P, Baltopoulos GI. First Peripherally Inserted Central Catheter Under Ultrasound Guidance in a Greek Intensive Care Unit: A New Role for Greek Perianesthesia Nurses. *Journal of Perianesthesia Nursing* 2015; 30(6):487-91
10. Gavala A, Manou D, Psalida V, Nystatzaki M, Mavrogiannis C, Alevizopoulos G, **Myrianthefs P**. Methadone Gastrobezoar in a Psychiatric Patient Presented in Coma. *Indian J Crit Care Med* 2017 Nov;21(11):796-798.
11. **Myrianthefs PM**, Baltopoulos GJ. Aerosolized Colistin Cost-effectiveness. *Chest* 2014; 145(4):926-7.
12. ICON and SOAP investigators. Vincent JLet al. Comparison of European ICU patients in 2012 (ICON) versus 2002 (SOAP). Vincent JL, et al; SOAP investigators. *Intensive Care Med*. 2018; 44(3):337-344. doi: 10.1007/s00134-017-5043-2.
13. Intensive Care Over Nations Investigators. Sakr Y, et al; Higher Fluid Balance Increases the Risk of Death From Sepsis: Results From a Large International Audit. *Crit Care Med*. 2017 Mar;45(3):386-394
14. DALI Study Group. Is prolonged infusion of piperacillin/tazobactam and meropenem in critically ill patients associated with improved pharmacokinetic/pharmacodynamic and

- patient outcomes? An observation from the Defining Antibiotic Levels in Intensive care unit patients (DALI) cohort. Abdul-Aziz MH, et al; J Antimicrob Chemother. 2016 Jan;71(1):196-207.
15. Intensive Care Over Nations Investigators. Sakr Y, et al; Being Overweight Is Associated With Greater Survival in ICU Patients: Results From the Intensive Care Over Nations Audit. Crit Care Med. 2015 Dec;43(12):2623-32.
 16. EU-VAP/CAP Study Group. Koulenti D, et al; COPD patients with ventilator-associated pneumonia: implications for management. Eur J Clin Microbiol Infect Dis. 2015 Dec;34(12):2403-11. doi: 10.1007/s10096-015-2495-6.
 17. DALI Study. Roberts JA, et al; DALI: Defining Antibiotic Levels in Intensive Care Unit Patients: Are Current β -Lactam Antibiotic Doses Sufficient for Critically Ill Patients? Clin Infect Dis. 2014 Apr;58(8):1072-83.
 18. EU-VAP Study Investigators. Blot S, et al; Prevalence, risk factors, and mortality for ventilator-associated pneumonia in middle-aged, old, and very old critically ill patients*. Crit Care Med. 2014; 42(3):601-9.
 19. DALI Study Authors. Roberts JA, et al; Variability in protein binding of teicoplanin and achievement of therapeutic drug monitoring targets in critically ill patients: lessons from the DALI Study. Int J Antimicrob Agents. 2014 May;43(5):423-430.
 20. ICON investigators. Vincent JL, et al; Assessment of the worldwide burden of critical illness: the Intensive Care Over Nations (ICON) audit. Lancet Respir Med. 2014;2(5):380-386.
 21. EPIC II Investigators. De Waele J, et al; Abdominal infections in the intensive care unit: characteristics, treatment and determinants of outcome. BMC Infect Dis. 2014;14:420.
 22. EPIC II Group of Investigators. Gustot T, et al; Impact of infection on the prognosis of critically ill cirrhotic patients: results from a large worldwide study. Liver Int. 2014 Nov;34(10):1496-503.

BOOKS

Books (Editor)

1. Mechanical Ventilation in Intensive Care and Emergency Medicine, Paschalidis Publishing Group, Athens, 2005 pp 400
2. 10th Congress Critical Care and Emergency Medicine: Interventions, Paschalidis Publishing Group, Athens, 2007 pp 1273

Book Translation (Editor)

1. Classen M., Diehl V., Kochsiek K. Differential Diagnose - Innere Medizin. Gebundene Ausgabe, Urban and Schwarzenberg. 2003 Paschalidis Publishing Group

Book Translation into Greek Language

5 medical books

Chapters in Medical Books (Author)

34 chapters in Greek Medical Books (published)

9 chapters in International Medical Books (published):

1. Baltopoulos G, **Myrianthefs P**. Inhaled NO as a Replacement Therapy. Disease markers in exhaled breath. Basic mechanisms and clinical applications. *In*: Marczin N, Yacoub MH (Eds). NATO Sciences Series. IOS Press 2002; pp: 30 – 34.
2. **P. M. Myrianthefs**, N. Markou, G. J. Baltopoulos. Major Key Topics concerning Nosocomial Pneumonia. *In*: Esquinas Rodríguez Antonio Matías (Ed). Yearbook of Respiratory care clinics and applied technologies. Spain, 2008. pp: 788 – 794.

3. **P. M. Myrianthefs**, P. Evaggelopoulos, G. J. Baltopoulos. Resolution of infectious parameters in Ventilator Associated Pneumonia. *In: Esquinas Rodríguez Antonio Matías (Ed). Yearbook of Respiratory care clinics and applied technologies. Esquinas AM (Ed): Applied Technologies in Pulmonary Medicine. Basel, Karger, 2011, pp: 163–167.*
4. **P. M. Myrianthefs**, G. J. Baltopoulos. Blood gas analysis: acid-base disorders, Chapter 18a. *In: Tubaro M, Danchin N, Filippatos G, Goldstein P, Vranckx P & Zahger D (Eds). ESC textbook of Intensive and Acute Cardiac Care. Oxford University Press, England, 2011. pp: 149-156.*
5. **P. M. Myrianthefs**, G. J. Baltopoulos. Fluid-electrolyte disorders, Chapter 18b. *In: Tubaro M, Danchin N, Filippatos G, Goldstein P, Vranckx P & Zahger D (Eds). ESC textbook of Intensive and Acute Cardiac Care. Oxford University Press, England, 2011. pp: 156 – 162.*
6. Richard P, **P. M. Myrianthefs**, G. J. Baltopoulos, McMaster S. Blood gas analysis: acid-base and fluid and electrolyte disorders, Chapter 18. *In: The ESC Textbook of Intensive and Acute Cardiac Care 2nd edition 2015 edited by Marco Tubaro and Pascal Vranckx with co-editors Susanna Price and Christiaan Vrints, Oxford University Press, England, 2015 pp: 135 – 147.*
7. Flachskampf F, **P. M. Myrianthefs**, Beyer R. Echocardiography and thoracic ultrasound, Chapter 20. *In: The ESC Textbook of Intensive and Acute Cardiac Care 2nd edition 2015 edited by Marco Tubaro and Pascal Vranckx with co-editors Susanna Price and Christiaan Vrints, Oxford University Press, England, 2015 pp: 160 – 173.*
8. **P. M. Myrianthefs**, E. Karabatsos, G. J. Baltopoulos. *In: Principles of Critical Care, 4th edition, 2015. Hall J, Schmidt G, Kress J (Eds). McGraw-Hill Professional; pp: 551 - 556.*
9. A. C. Gavala, **P. M. Myrianthefs**. Mechanical ventilation approach in sleep breathing disorders, Chapter 21. *In: Topics in Mechanical Ventilation Monitoring. 2018. Antonio M. Esquinas (Ed). Nova Publisher, USA; pp: In press*

ORGANIZATIONAL AND ADMINISTRATIVE ACTIVITIES

I. Academic Positions

- Assistant professor (2005 - 2009)
- Associate professor (2010 - 2014)
- Full professor (2014 - today)

II. At the university

- Director, Laboratory of Pulmonary Function Testing, Bronchoscopy & Hyperbaric Medicine, Pulmonary Outpatient Clinic at “Agioli Anargyroi” Hospital, Noufaron & Timiou Stavrou Kaliftaki, Nea Kifissia, 14564, Athens, Greece (22/09/2016 – today)
- Elected member of the Research Committee and the Management of the Special Account for Research Grants (ELKE) of the National and Kapodistrian University of Athens (2017 – now)
- Member of the Surgical Section of the Nursing School at National & Kapodistrian University of Athens (2005 – today).
- Member of the General Assembly of the Nursing School at National & Kapodistrian University of Athens (2005 – today).
- Member of the temporary General Assembly of School of Nursing at Peloponnesus University in Sparta to organize its function, 2006 – 2010
- Member of the Postgraduate Committee of Athens University School of Nursing, (2010 – 2012)
- Member and President of the Research Committee of the Nursing School of National & Kapodistrian University of Athens, (2011 – Today)

III. Hospital positions

- Director, Laboratory of Pulmonary Function Testing, Bronchoscopy & Hyperbaric Medicine, Pulmonary Outpatient Clinic at “Agioli Anargyroi” Hospital, Noufaron & Timiou Stavrou Kaliftaki, Nea Kifissia, 14564, Athens, Greece (22/09/2016 – today)
- Member of the Educational Committee at “KAT” Hospital, 2004 – 2006

- Member of the Educational Committee (Scientific Committee) at “Agioi Anargyroi” Hospital, (2010 – 2011)

IV. Other positions

- Member of the committee of the ministry of Health of Greece for the education and specialization in Critical Care
- Representative member of **ESICM** (European Society of Intensive Care Medicine) in **EBICM** (The European Board of Intensive Care Medicine)
- Member of the CoBaForum (The CoBaTrICE network), for **CoBaTrICE** (Competency Based Training programme in Intensive Care Medicine for Europe) of the **ESICM** (European Society of Intensive Care Medicine)
- **Examiner EDIC**: Diploma in Intensive Care of the European Society of Intensive Care Medicine – ESICM, (2009 – 2014)
- Elected representative of Greece in the European Society of Intensive Care Medicine, 2001-2003
- Coordinator (elected) of the section “Infection prevention and management” of the Hellenic Society of Intensive Care Medicine coordinating the actions of the section around Greece, 2010- Today
- Member of the general assembly of the Society of Continuous Medical Education (2007 – 2009).
- Member of the general assembly of the Hellenic Society of Intensive Care Medicine (HSICM) (2013 – 2015 & 2015 – 2017).
- Founding member of
 - Cyprus Society of Intensive Care (CSIC), 2008
 - Hellenic Society of the Study of Pulmonary Hypertension (HSSPH), 2012
 - Hellenic Society of Artificial Nutrition and Metabolism, 2012

INVITED LECTURES

- 123 in Greek and 7 in International Congresses – Symposia

ORGANISING COMMITTEE OF CONFERENCES/SCIENTIFIC SYMPOSIA

Vice President

- 1 in Greek Medical Congresses – Symposia

Member

- 34 in Greek Medical Congresses – Symposia

Member of the Scientific Committee

- 22 in Greek Medical Congresses – Symposia

EDITORIAL BOARD/REVIEWER FOR MEDICAL CONGRESSES PROCEEDINGS

- 13 in Greek Congresses – Symposia

COORDINATOR IN ROUND TABLES

- 46 in Greek Congresses – Symposia

COMMENTATOR IN IN ROUND TABLES

- 7 in Greek Congresses – Symposia

MEMBERSHIP IN SCIENTIFIC and PROFESSIONAL ASSOCIATIONS SOCIETIES (MEMBERSHIP)

1. Hellenic Society of Intensive Care Medicine
2. Hellenic Society of Pulmonary Medicine
3. Hellenic Society of Bronchology
4. Hellenic Research Society of Pulmonary Hypertension
5. Hellenic Society of Artificial Nutrition and Metabolism
6. European Society of Intensive Care Medicine (ESICM)
7. International Cytokine Society (USA)

8. American College of Chest Physicians (USA)
9. European Sleep Research Society (ESRS)

HONORARY AWARDS

- **International Medical Congresses: 2**

1. Young Investigator Award at the American College of Chest Physicians Annual Meeting, Montreal, 2005. Briva A, Welch L, Chen J, **Myrianthefs P**, Azzam Z, Lecuona E, Dumasius V, Batlle D, Gruenbaum Y, Sznajder JI. Alveolar fluid reabsorption is impaired by hypercapnia independently of extracellular and intracellular pH.
2. **Myrianthefs P**, Psallida V, Mistakelli C, Evagelopoulou P, Katsaros A, Gavala A, Baltopoulos G. Vancomycin in critically ill: Continuous or bolus administration? 2nd Mediterranean Congress on Critical Care Medicine. Brijuni Islands, Croatia. June 4 – 7, 2007.

- **Greek Medical Congresses: 11**

Pubmed

<https://www.ncbi.nlm.nih.gov/pubmed/?term=myrianthefs+p>

Google scholar

<https://scholar.google.gr/citations?hl=el&user=89wbHKUAAAAJ>