

CURRICULUM VITAE

Basic Information*

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Photo



Current Primary Affiliation/Institution* (Please don't use any acronyms)

Department/Division: Pediatric Intensive Care Unit, University Hospital of Heraklion, Crete

University/Institution: University of Crete, School of Medicine

City: Heraklion

Country/Region: Greece, Crete

Highest Degree & Job Title*

Highest Degree*: Doctorate (Ph.D., M.D., etc.)

Job Title*: Assistant Professor

Research Fields*

Sepsis; critical illness; neurosurgical emergencies; neurological diseases; pediatric intensive care

Online Profiles

(Please provide your personal profile URLs if you already have accounts on the following platforms.)

ORCID:	https://orcid.org/0000-0001-7622-202X
ResearchGate:	https://www.researchgate.net/profile/Marianna-Miliaraki
Google Scholar:	https://scholar.google.com/citations?user=ZcF-5E4AAAAJ&hl=el

Education*

Medical Doctor, School of Medicine, University of Crete, Greece (2001-2007)

Master of Science, Clinical Pediatrics and Nursing, University of Athens, Greece (2012-2015)

Master of Science, Emergency and Intensive Care of children and adults, University of Crete (2017-2018)

Doctoral degree- Apoptotic and antiapoptotic pathways in septic ICU patients, University of Crete (2016-2023)

Work Experiences*

Specialty in Pediatrics (2011-2015)

Subspecialty in Pediatric Intensive Care (2016-2019)

Fellow in Pediatric Intensive Care Unit of University Hospital PAGNI, Heraklion, Greece (2019-today)

Assistant Professor of Pediatric Intensive Care (2025-today)

Publications*

1. Miliaraki M., Katzilakis N., Chranioti I., Stratigaki M., Koutsaki M., Psarrou M., Athanasopoulos E., Stiakaki E. "Central Line-Associated Bloodstream Infections in Childhood malignancies. Single center experience", *Pediatrics International* (2017) Jul;59(7):769-775 (IF 1.67); doi: [10.1111/ped.13289](https://doi.org/10.1111/ped.13289)
2. Ilia S., Geromarkaki E., Miliaraki M., Briassoulis G. "Therapeutic Plasma-Albumin Exchange for Hyperlipidemia Induced Acute Pancreatitis", *J Pediatr Gastroenterol Nutr* (2018) Jun;66(6):e162 (IF 3.335); doi: [10.1097/MPG.0000000000001993](https://doi.org/10.1097/MPG.0000000000001993)
3. Ilia S., Geromarkaki E., Briassoulis B., Bourmpaki P., Tavladaiki T., Miliaraki M., Briassoulis G. "Effects of Increasing PEEP on Lung Stress and Strain in Children With and without ARDS". *Intensive Care Med* (2019) Sep;45(9):1315-1317 (IF 41.78); doi: [10.1007/s00134-019-05667-1](https://doi.org/10.1007/s00134-019-05667-1)

4. Briassoulis G, Briassoulis P, Miliaraki M., Ilia S., Parlato M., Philippart F., Rouquette A., Moucadel V., Cavaillon J-M., Misset B., and Combined approach for The eArly diagnosis of INfection in sepsis (CAPTAIN) study group. "Biomarker cruises in sepsis: who is the CAPTAIN? Discussion on "Circulating biomarkers may be unable to detect infection at the early phase of sepsis in ICU patients: the CAPTAIN prospective multicenter cohort study". Intensive Care Med (2019) Jan;45(1):132-133 (IF 41.78); <https://doi.org/10.1007/s00134-018-5451-y>
5. Briassoulis G., Briassoulis P., Miliaraki M., Ilia S. "Might the Pediatric Surviving Sepsis Campaign International Guidelines Be Less Confusing?". Intensive Care Med (2020) May 24 (IF 41.78); doi: [10.1007/s00134-020-06108-0](https://doi.org/10.1007/s00134-020-06108-0)
6. Briassoulis G, Briassoulis P, Miliaraki M, Ilia S. "The personalized hypothalamus-pituitary-adrenal axis and the ubiquitous differential stress response to critical illness". Intensive Care Med (2020) (IF 41.78); doi: [10.1007/s00134-020-05982-y](https://doi.org/10.1007/s00134-020-05982-y)
7. Ilia S., Geromarkaki E., Briassoulis B., Bourmpaki P., Tavladaiki T., Miliaraki M., Briassoulis G. "Longitudinal PEEP Responses differ between children with ARDS and at risk for ARDS". Respiratory Care (2021) Mar;66(3):391-402 (IF 2.339); doi: [10.4187/respcare.07778](https://doi.org/10.4187/respcare.07778)
8. Briassoulis P., Ilia S., Briassouli E., Miliaraki M., Briassoulis G. "The lonely glutamine tree in the middle of the infinite critically ill forest". Critical Care (2021) Sep 17;25(1):342 (IF 19.34); doi: [10.1186/s13054-021-03743-x](https://doi.org/10.1186/s13054-021-03743-x)
9. Miliaraki M., Briassoulis P., Ilia S., Polonifi A., Mantzourani M., Briassouli E. Vardas K., Nanas S., Theodorakopoulou M., Tavladaiki T., Spanaki AM., Kondili E., Dimitriou H., Tsiodras S., Georgopoulos D., Armaganidis A., Daikos G., Briassoulis G. "Survivin and caspases serum protein levels and survivin variants mRNA expression in sepsis". Scientific Reports (2021) Jan 13;11(1):1049 (Impact Factor: 4.6); doi: [10.1038/s41598-020-78208-2](https://doi.org/10.1038/s41598-020-78208-2)
10. Miliaraki M., Briassoulis P., Ilia S., Michalakakou K., Karakonstantakis T., Polonifi A., Bastaki K., Briassouli E., Vardas K., Pistiki A., Theodorakopoulou M., Tavladaiki T., Spanaki AM., Kondili E., Dimitriou H., Venihaki M., Tsiodras S., Georgopoulos D., Mantzourani M., Nanas S., Armaganidis A., Daikos G., Papassotiriou I., Briassoulis G., (2022). "Oxidant/Antioxidant status is impaired in sepsis and is related to anti-apoptotic, inflammatory, and innate immunity alterations". Antioxidants (Basel) (2022) Feb; 11(2): 231 (Impact Factor: 7.675); doi: [10.3390/antiox11020231](https://doi.org/10.3390/antiox11020231)
11. Tsitsipanis C., Miliaraki M., Ntotsikas K., Baldounis D., Kokkinakis E., Briassoulis G., Venihaki M., Vakis A., Ilia S. "Impact of intracranial hypertension on outcome of severe traumatic brain injury pediatric patients: A 15-year single center experience". Pediatric Reports (2022), 14(3), 352-365 (IF: 1.1); <https://doi.org/10.3390/pediatric14030042>
12. Tsitsipanis C., Miliaraki M., Paflioti E., Lazarioti S., Ntotsikas K., Moustakis N., Ntotsikas K., Theofanopoulos A., Ilia S., Vakis A., Simos P., Venychaki M. "Inflammation biomarkers IL-6 and IL-10 may improve the diagnostic and prognostic accuracy of currently authorized traumatic brain injury tools". Experimental and therapeutic Medicine (2023) Jun 12;26(2):364 (IF: 2.7); doi: [10.3892/etm.2023.12063](https://doi.org/10.3892/etm.2023.12063)
13. Tsitsipanis C., Miliaraki M., Michailou M., Geromarkaki E., Spanaki A.M., Nyktari V., Yannopoulos A., Moustakis N., Ilia S. "Severe and atypical presentation of Takotsubo Cardiomyopathy in a pediatric

- patient after a serious crash injury-Case report and literature review". *Pediatric Reports* (2023), 15(3), 396–402 (IF: 1.1); <https://doi.org/10.3390/pediatric15030036>
14. Briassoulis G., Briassoulis P., Ilia S., Miliaraki M., Briassouli E. "The Anti-Oxidative, Anti-Inflammatory, Anti-Apoptotic, and Anti-Necroptotic Role of Zinc in COVID-19 and Sepsis". *Antioxidants* (2023), 12(11), 1942 (IF: 7.3); <https://doi.org/10.3390/antiox12111942>- (Part of this work adapted in Scholarly Community Encyclopedia "Zinc Functions")
 15. Athanasios Vasilopoulos, Marianna Miliaraki, Christos Tsitsipanis, Konstantinos Ntotsikas, Nikolaos Chochlidakis, Dimitrios Karabetsos, Nikolaos Moustakis, Athanasios Theofanopoulos, Sofia Lazarioti, Vasilios Papastergiou, Georgia Kritikou, Andreas Yannopoulos. "Progressive quadriparesis of a toddler with a posterior fossa arachnoid cyst (AC): Illustrative Case Report and narrative literature review". *Children (Basel)* (2024). DOI: [10.3390/children11121463](https://doi.org/10.3390/children11121463)
 16. Athanasios Vasilopoulos, Marianna Miliaraki, Christos Tsitsipanis, Konstantinos Ntotsikas, Nikolaos Chochlidakis, Dimitrios Karabetsos, Nikolaos Moustakis, Athanasios Theofanopoulos, Sofia Lazarioti, Vasilios Papastergiou, Georgia Kritikou, Andreas Yannopoulos. "Post-traumatic cerebral sinus thrombosis (PtCVST) resulting in increased intracranial pressure during early post-traumatic brain injury period: Case report and narrative literature review". *Healthcare (Basel)* (2024). DOI: [10.3390/healthcare12171743](https://doi.org/10.3390/healthcare12171743)
 17. Briassoulis G., Briassoulis P., Miliaraki M. Ilia S. "Entangled in stagnant recruitment delusions". *Intensive Care Med.* (2024). DOI: [10.1007/s00134-024-07445-0](https://doi.org/10.1007/s00134-024-07445-0)
 18. Briassoulis G. Argyrakopoulou M. Korela D., Labrinaki S., Nikiforou A., Papoutsakis A., Briassoulis P., Miliaraki M., Notas G., Ilia S. "Lifelong training, retraining, reskilling, upskilling and knowledge gaps in emergency medicine: a cross-sectional survey study. *World Journal of Emergency Medicine.* (2025). DOI: [10.5847/wjem.j.1920-8642.2025.061](https://doi.org/10.5847/wjem.j.1920-8642.2025.061)
 19. Roupa A., Patelarou A., Fradelos E., Fousiani K., Miliaraki M., Giakoumidakis K., Patelarou E. "Validation of two instruments for the measurement of dehumanization and self-dehumanization in healthcare settings. *Nurs Rep.* (2024). DOI: [10.3390/nursrep14030167](https://doi.org/10.3390/nursrep14030167)
 20. Roupa A., Patelarou A., Giakoumidakis K., Fousiani K., Miliaraki M., Stratidaki E., Patelarou E. "Measurement of dehumanization, self-dehumanization, and empathy as mediating factors among healthcare professionals. *Healthcare (Basel)* (2025). DOI: [10.3390/healthcare13010075](https://doi.org/10.3390/healthcare13010075)
 21. Briassoulis G., Tzermia K., Bastaki K., Miliaraki M., Briassoulis P., Damianaki A., Kondili E., Ilia S. "Necroptotic and Apoptotic Pathways in Sepsis: A Comparative Analysis of Pediatric and Adult ICU Patients". *Biomedicines.* (2025); [10.3390/biomedicines13071747](https://doi.org/10.3390/biomedicines13071747)

Book Chapters:

- M Miliaraki, E Briassouli, S Ilia, G Briassoulis. (2018) Heat Shock Protein responses in septic patients. Book Title: Regulation of Heat Shock Protein Responses. Springer International Publishers (Ed) ISBN 978-3-319-90725-3
- M. Miliaraki, P. Briassoulis, S. Ilia, G. Briassoulis. (2020) Chapter title: Apoptotic, Anti-Apoptotic and Immune System Crosstalk in Sepsis. An eBook on Sepsis, Vol I, Chapter 3, pp 1-16. ISBN: 978-93-87500-50-1

Conference presentations

1	Miliaraki M. , Papadimas M., Tritou I., Koropouli M., Chatzakis M.. Limb arterial thrombosis in neonates: single center experience. 4 th International Congress of Union of European Neonatal and Perinatal Societies, 11-14 December 2014
2	Niotakis G., Miliaraki M. , Tritou I., Papadimas M., Koropouli M.. Case Report: Congenital CNS Toxoplasmosi after appropriate antimicrobial treatment during pregnancy and negative amniotic fluid PCR. 4 th International Congress of Union of European Neonatal and Perinatal Societies, 11-14 December 2014
3	Skopetou K., Miliaraki M. , Valari V., Thomou C., Polichronaki M., Papadimas M., Koropouli M.. Maternal Risk Factors for neonatal necrotizing enterocolitis: A retrospective study. 4 th International Congress of Union of European Neonatal and Perinatal Societies, 11-14 December 2014
4	Miliaraki M. , Tavladaiki T, Spanaki AM, Dimitriou H, Ilia S, et al. Oxidant/antioxidant status of adult and pediatric ICU patients; a key role for sepsis and mortality. 30 th ESICM Vienna Austria 2017 (<i>nominated for Young Investigator Award</i>)
5	Miliaraki M. , Briassoulis P, Ilia S, et al. "Surviving variants mRNA expression and protein activity in sepsis" ICM 2018; (Suppl 1 Vol 44) 31 st ESICM Paris 2018
6	Geromarkaki E, Ilia S, Miliaraki M. , et al. "Functional residual capacity, respiratory system compliance, and lung stress and strain recordings in a PEEP INview trial in mechanically ventilated children-a pilot study" ICM 2018; (Suppl 1 Vol 44) 31 st ESICM Paris 2018
7	S. Ilia, E. Geromarkaki, P. Briassoulis, P. Bourmpaki, T. Tavladaiki, M. Miliaraki , G. Briassoulis. End-expiratory volume and lung stress and strain longitudinal changes evoked by PEEP escalation in ARDS and non-ARDS children. ICM 2019; (Suppl Vol) 32 nd ESICM Berlin 2019
8	Savvakis S, Zografos A, Tsitsipanis C, Miliaraki M. , Ilia S, Vakis A. Severe and atypical presentation of CNS infections. The role of decompressive craniectomy: two pediatric case reports. European Association of Neurosurgical Societies (EANS) Virtual Congress Oct 2020
9	M. Miliaraki , P. Briassoulis, S. Ilia, A. Polonifi, M. Mantzourani, E. Briassouli, S. Nanas, A. Pistiki, M. Theodorakopoulou, G. Daikos, G. Briassoulis. Survivin and caspases upregulation in sepsis. ICM Experimental 2020; Vol 8 (2):73 000994. 33 rd ESICM Lives Dec 2020
10	Ilia S, Stefanogianni C, M. Miliaraki , P. Briassoulis, M Raissaki, Zaganas I, Briassoulis G. Super Refractory Status Epilepticus in children and adolescence. ICM Experimental 2020; Vol 8 (2):73 000984 33 rd ESICM Lives Dec 2020
11	Ilia S, Miliaraki M. , Briassoulis, A. Polonifi, M. Mantzourani, E. Briassouli, K. Vardas, A. Pistiki, M. Theodorakopoulou, S. Tsiodras, A. Armaganidis, S. Nanas, G. Daikos, G. Briassoulis Apoptotic, anti-apoptotic and innate immunity crosstalk in sepsis ICMx 2021,9 (Suppl 1) :51 34 th ESICM Lives Oct 2021 doi.org/10.1186/s40635-021-00413-8
12	Ilia S., Miliaraki M. , Briassoulis P, Polonifi A., Mantzourani M., Briassouli E., Tavladaiki T., Spanaki A., Dimitriou H., Venihaki M., Katrinaki M., Daikos G., Briassoulis G.. Antiapoptotic antioxidant and innate immunity responses to the oxidative inflammatory stress in pediatric sepsis ICMx 2021,9 (Suppl 1) :51 34 th ESICM Lives Oct 2021 doi.org/10.1186/s40635-021-00413-8
13	Briassoulis G, Papoutsakis A, Briassoulis P, Miliaraki M. , Briassoulis E, Aggouridakis P, Ilia S. Current knowledge of attitudes towards basic and advanced pediatric and adult life support among emergency department, emergency medical service, and public health unit personnel in Crete ICMx 2021,9 (Suppl 1) :51 34 th ESICM Lives Oct 2021 doi.org/10.1186/s40635-021-00413-8
14	Choulaki E, Raissaki M, Briassoulis G, Miliaraki M. , Briassouliis P, Ilia S. Magnetic Resonance Imaging in

	children with Status Epilepticus ICMx 2021,9 (Suppl 1):51 34th ESICM Lives Oct 2021 doi.org/10.1186/s40635-021-00413-8
15	Ilia S, Tsinopoulos V, Miliaraki M , Briassoulis P, Raissaki M, Briassoulis G. Metabolic and nutritional characteristics, diagnostic predictors and outcome of Long-Stay Patients in a Pediatric Intensive Care Unit. ICMx 2021,9 (Suppl 1) :51 34th ESICM Lives Oct 2021 doi.org/10.1186/s40635-021-00413-8
16	Tavladaki T, Spanaki AM, Vasilaki E, Geromarkaki E, Miliaraki M , Dardamani E, Ilia S. Epidemiology of sepsis and sepsis mortality in a pediatric intensive care unit ICMx 2021,9 (Suppl 1) :51 34th ESICM Lives Oct 2021 doi.org/10.1186/s40635-021-00413-8
17	Dardamani E, Spanaki AM, Tavladaki T, Miliaraki M , Vasilaki E, Geromarkaki E, Ilia S. Mortality Trends in a Paediatric Intensive Care Unit. ICMx 2021 ;9 (Suppl 1):51 34th ESICM Lives Oct 2021 doi.org/10.1186/s40635-021-00413-8
18	Ilia S, Moudatsaki M, Mamoulakis D, Miliaraki M , Briassoulis G. Diabetic ketoacidosis severity and outcome predicting indices in the pediatric intensive care unit. Oral presentation 31st Annual Meeting of ESPNIC June 2021 Virtual
19	Tsitsipanis C., Miliaraki M , Paflioti E., Bartsokas C., Lazarioti S., Ntotsikas K., Moustakis N., Kokkinakis E., Theofanopoulos A., Vakis A., Ilia S., Briassoulis G., Venychaki M. "The role of interleukins in traumatic brain injury". European Association of Neurological Societies, EANS, Belgrade 2022. Brain and spine 2 (2022) 101190 101313; doi: 10.1016/j.bas.2022.101313
20	Tsitsipanis C., Miliaraki M , Ntotsikas K., Baldounis D., Kokkinakis E., Briassoulis G., Venychaki M., Vakis A., Ilia S. Impact of intracranial hypertension on outcome of severe traumatic brain injury pediatric patients: a 15-year single center experience. European Association of Neurological Societies, EANS, Belgrade 2022
21	Moustakis N., Trikkos N., Miliaraki M , Ntotsikas K., Lazarioti S., Marinis A., Sourvanos G., Vakis A., Tsitsipanis C. "Impact of COVID-19 on neurosurgical practice". Brain and Spine 2 (2022) 101190 101613; doi: 10.1016/j.bas.2022.101613
22	Lygerou I., Ilia S., Hatzidaki E., Miliaraki M , Briassoulis G.. Effect of nutritional support and energy-protein balance on growth indices and outcome in premature infants. 9th Congress of European Academy of Pediatric Societies (EAPS) October 7-11, Barcelona 2022 DOI: 10.3389/978-2-88971-024-9
23	Korela D, Briassoulis G, Briassoulis P, Miliaraki M , Briassouli E, Lamprinaki S, Aggouridakis P, Ilia S. The practice of algorithms and the lifelong pediatric and adult basic and advanced life support training of doctors, nurses, and paramedics of the prefecture of Heraklion. 35th Annual Congress of ESICM Oct 22-26, Paris 2022 ICM doi.org/10.1186/s40635-022-00469-1
24	Lamprinaki S, Ilia S, Briassoulis P, Miliaraki M , Briassouli E, Korela D, Aggouridakis P, Briassoulis G. Self-assessment and willingness for lifelong training in adult and pediatric emergency algorithms of doctors, nurses, and paramedics of the prefecture of Lasithi in Crete. 35th Annual Congress of ESICM Oct 22-26, Paris 2022 ICM doi.org/10.1186/s40635-022-00469-1
25	Miliaraki M , Bastaki K, Ilia S, Kalpadaki C, Kondyli E, Briassoulis G. Intracellular expression of apoptotic and antiapoptotic molecules in sepsis. 35th Annual Congress of ESICM Oct 22-26, Paris 2022 ICM doi.org/10.1186/s40635-022-00469-1
26	Spanaki AM, Ladomenou F, Tavladaki T, Dardamani E, Miliaraki M , Vasilaki E, Geromarkaki E, Ilia S. Multisystem Inflammatory Syndrome (MISC) in a pediatric Intensive Care Unit (PICU). 40th Annual meeting of ESPID 9-13 May Athens 2022
27	Spanaki AM, Ladomenou F, Tavladaki T, Michailidou E, Blevrakis E, Miliaraki M , Ilia S. Complicated pneumonia in children - a PICU experience in the first post-COVID year. 41st Annual meeting of the

	European Society for paediatric infectious diseases, 8-12 May 2023, Lisbon.
28	Moustakis N., Panouli A., Ntotsikas K., Lazarioti S., Theofanopoulos A., Salapatas A., Miliaraki M. , Vakis A., Tsitsipanis C. Ethical and Legal Considerations regarding informed consent of neurosurgical interventions: A Literature Review. Neurosurgery & Technology at the Service of Humanity, EANS, 24-28 September, 2023, Barcelona.
29	Miliaraki M. , Briassoulis P., Polonifi A., Mantzourani M., Ilia S., Briassoulis G. Pro-apoptotic Bax/Bak, Smac and caspases interactions with the anti-apoptotic survivin and X-linked Inhibitor of Apoptosis Protein (XIAP) in sepsis. 36th Annual Congress 21-25 October, Milan ESICM LIVES 2023. ICMx 11 (Suppl 1):000542, 72 (2023). https://doi.org/10.1186/s40635-023-00546-y
30	Miliaraki M. Briassoulis G. Briassoulis P., Papassotiriou I., Michalakakou K., Karakonstantakis T., Briassouli E., Vardas K., Pistiki K., Ilia S. "The role of zinc in oxidative stress response in critically-ill patients", 5-9 October Barcelona, ESICM LIVES 2024
31	Miliaraki M. , Dardamani E., Bastaki K., Andrianou P., Ilia S. "Assessment of hemodynamic status based on transpulmonary thermodilution and echocardiography monitoring techniques in critically-ill children"38 th Annual Congress 25-29 October, Munich, ESICM LIVES 2025 (Accepted- Pending publication).