

Personal details

Name	Matteo Di Nardo
Date of birth	26/11/1977
Address	Pediatric Intensive Care Unit, Children's Hospital Bambino Gesù P.zza S. Onofrio 4 00165 Rome, Italy
Contact	+393396593604
Email	matteo.dinardo@opbg.net

Current positions

2006-present	Consultant in Pediatric Critical Care and Anesthesia Children's Hospital Bambino Gesù, P.zza S. Onofrio 4 00165 Rome, Italy
2022-present	Secretary of the European Society of Pediatric and Neonatal Intensive Care (ESPNIC)
2014-present	Executive Member of the European Extracorporeal Life Support Organization (EuroELSO)
April 2014	Medical Director of the Respiratory ECMO program-Children's Hospital Bambino Gesù, P.zza S. Onofrio 4, 00165 Rome, Italy
March 2017	Assistant Professor in Anesthesia and Intensive Care Medicine

Prior position

2006-2011	Consultant Adult Cardiac Anesthesia and Intensive Care European Hospital, via Portuense 700 Rome, Italy
-----------	---

Education

2016	Master in Health Care Management and Economics of Medical Systems, University of TorVergata, Rome, Italy
2002-2006	Specialization in Anesthesia and Intensive Care University of Pisa, Italy
1996-2002	School of Medicine, Catholic University of Sacred Heart, Rome, Italy

Licensure and board certifications

2016- Present	Pediatric advanced life support (American Heart Association)
2009	Certification as ECMO specialist (Ann Arbor, Michigan USA)
2006–2022	General Medical Council (GMC), United Kingdome
2006- Present	Italian Society of Anesthesia and Intensive Care (SIAARTI)
2006- Present	Italian Society of Pediatric Anesthesia, Analgesia and Intensive Care (SARNePI)
2006 -2016	Pediatric advanced life support (Italian Resuscitation Council)
2002- Present	General Italian Council of Medicine and Surgery
2002- 2010	Advanced Life Trauma Support

Training & Fellowship

2019 (1 year)	Research Fellowship on Lung transplantation (pediatric and adult) and on the Ex-Vivo Lung Perfusion technique (Prof. Shaf Keshavjee, Toronto Canada)
2011 (1 month)	Observership at the Intensive Care Unit (Prof. Luciano Gattinoni, Milan, Italy); Commitment: Conventional and advanced management of ARDS
2011 (3 months)	Observership at the ECMO Centrum (Director Dr. Kenneth Palmer) Karolinska Institutet, Stockholm, Sweden

2009 (2 months)	ECMO training Course (Prof. Gail Annich, and Prof. Robert Bartlett) Mott's Children Hospital, Ann Arbor, Michigan, USA
2007 (1 month)	Observership at Cardiothoracic Department, Papworth Hospital (Transesophageal echocardiography training course) University of Cambridge, Cambridge, United Kingdome

Professional society memberships

2018-Present	ESPNIC (European Society of Pediatric and Neonatal Intensive Care)
2014- Present	EuroELSO (European ExtraCorporeal Life Support Organization)
2006 – Present	SARNePI (Italian Society of Neonatal and Pediatric Anesthesia and Intensive Care)
2006- Present	SIAARTI (Italian Society of Anesthesia, Analgesia & Intensive Care)

Working/research groups

EuroELSO working group: Innovation on ECMO and Extracorporeal life support
EuroELSO working group: Neurologic monitoring and outcome

Honors/awards

2018	<i>ESPNIC Getinge Reserch Grant Euro 5000</i> Research title: Ventilator Induced Diaphragm Dysfunction in pediatric critically ill patients
------	--

2016	<p><i>Research Award of 5000 USD from the ELSO (ExtraCorporeal Life Support Organization):</i></p> <p>Research title: Pediatric Survival After Extracorporeal Membrane Oxygenation for Severe Pediatric Cardiogenic Shock : "The Pediatric SAVE Score".</p>
2013	<p><i>Research Award of 10.000 USD from the ELSO (ExtraCorporeal Life Support Organization):</i></p> <p>Research title: Extracorporeal Membrane Oxygenation in children with hematologic malignancy: moving towards ultra-selection of the patients?</p>

Professional services

2018-Present	Professor at contract in the School of Anesthesia and Intensive and Intensive Care, University La Sapienza Rome
2015- 2016	Professor at contract in Anesthesia and Intensive Care at the Pediatric Nursing School, University of TorVergata, Rome, Italy
2014- Present	Responsible of High Specialization in Pediatric ExtraCorporeal Life Support Children's Hospital Bambino Gesù, P.zza S. Onofrio 4, 00165, Rome, Italy
2013- Present	Responsible of the Pediatric ECMONet "Rete Respira" of the Italian Minister of Health
2012- Present	ECMO Team Coordinator, Children's Hospital Bambino Gesù, Rome, Italy

Grand Rounds

2019	<ul style="list-style-type: none"> Title: “How I manage mechanical ventilation during Pediatric ECMO” PICU Ann Arbor, Michigan, USA Title: “When I use spontaneous breathing in pediatric patients while on ECMO” Children’s Hospital of Orange County, California, USA
2020 (virtual)	<ul style="list-style-type: none"> Pediatric Lung Transplant in Cystic Fibrosis patients, Great Ormond Street Hospital, London, UK

Participation as a speaker at international congresses

2019	<ul style="list-style-type: none"> EuroELSO Congress (Barcelona, Spain): Title: “How to approach complex referrals? When to say no?- Post liver transplant, post HSCT”; Title: “Management of pARDS on ECMO...The role of Spontaneous Breathing”; Title: “Ethics and ECMO...mitigating ECMO expectations with ethicists at bedside”;
2018	<ul style="list-style-type: none"> 15th INTERCEPT 2018 (Milan, Italy) Title: “How to maintain performances: the ideal ECMO team”
2018	<ul style="list-style-type: none"> EuroELSO Congress (Prague, Czech Republic): Title: “Pediatric Respiratory ECMO: ARDS, changing definitions, new applications, mobile ECMO (what is new?)”; Title: “Management of the native lung, Deep sedation vs Awake-ECMO” World Federation Pediatric Intensive Care & Critical Care Society 2018 (Singapore): Title: “Hemophagocytic Lymphohistiocytosis (HLH)/ Macrophage Activation Syndrome (MAS) in PICU”

2017	<ul style="list-style-type: none"> • 5th CNUH ECMO Chonnam National University Hospital- (Gwangju, South Korea): Title: “Immunotherapy to treat ARDS... while on ECMO” • SWAC ELSO Congress (Doha, Qatar): Title: “ECMO in special Cases” Multidisciplinary Tracheostomy Workshop (Tallin, Estonia):Title: “ECMO in Kids 2016” • 14th INTERCEPT 2017 (Mialn, Italy) Title: “Postcardiotomy ECMO scenario”
2016	<ul style="list-style-type: none"> • EuroELSO Congress (Glasgow, United Kingdome); Title: “Hematopoietic Stem Cell Transplantation- always a contraindication to ECMO”
2015	<ul style="list-style-type: none"> • International Congress on ECMO and short-term circulatory/respiratory support (Paris, France); Title: “ARDS:similarities and differences between children and adult” • EuroELSO Congress (Regensburg, Germany); Title: “ ECMO in haematologic disease: markers of poor prognosis”
2014	<ul style="list-style-type: none"> • ELSO Congress (Ann Arbor, Michigan, USA); Title: “Special Patient Populations: Cancer and BMT”
2013	<ul style="list-style-type: none"> • EuroELSO Congress (Stockhom, Sweden); Title: “Is ECMO simulation an effective educational tool?”

2012	<ul style="list-style-type: none"> • EuroELSO Congress (Rome, Italy); Title: “How to handle the lung”
------	--

Participation as a speaker at national congresses

2016	<ul style="list-style-type: none"> • Romanesthesia Congress; Title: “ECMO in pediatria”
2016	<ul style="list-style-type: none"> • TDM Congress, Title: “PK/PD in ECMO: the impact of the therapeutic drug monitoring”
2015	<ul style="list-style-type: none"> • ECMO Expert Meeting, Title: “Respiratory ECMO in neonates and children”
2015	<ul style="list-style-type: none"> • CARACT Congress; Title: “Management of coagulation in pediatric VAD” • SARNePI Congress, Title: “The role of surfactant therapy during ECMO in children” • SITI Congress, Title: “ECMO in kids”
2014	<ul style="list-style-type: none"> • Italian ECMO Meeting, Florence (Italy): Magistral Lecture: ECMO in neonates and kids • SARNePI Congress, Title: “PiCCO in Children: the prognostic role of Extravascular lung water index”

Participation as a speaker at National courses

2017	<p>Course: CRRT in neonates and kids; Title 1: “Basics of critical care medicine for the pediatric nephrologist”; Title 2: “CRRT and ECMO”</p> <p>Course: Management of the pediatric unstable patient; Title: “Acid- Base Balance: The Stewart approach”</p>
------	---

2016	<p>Course: Management of acute intoxications in neonates and children; Title: "Management of intoxication due to overdose of cardio-active drugs"</p> <p>Course: Management of the pediatric unstable patient; Title: "Acid-Base Balance: The Stewart approach"</p>
2015	<p>Course: Management of the pediatric unstable patient; Title: "Acid-Base Balance: The Stewart approach"</p> <p>Course: CRRT in neonates and kids; Title 1: "Basics of critical care medicine for the pediatric nephrologist"; Title 2: "CRRT and ECMO"</p> <p>Course: Management of acute intoxications in neonates and children; Title: "Management of intoxication due to overdose of cardio-active drugs"</p> <p>Course: Management of the unstable neonate. Title: "Neonatal ECMO"</p>
2014	<p>Course: Management of acute intoxications in neonates and children; Title: "Cardiotoxicity mechanisms"</p> <p>Course: Management of the unstable neonate. Title: "Neonatal ECMO"</p>
2013	<p>Course: Management of acute intoxications in neonates and children</p> <p>Title 1: "Management of intoxication due to overdose of cardio-active drugs"</p>

2012	<p>Title 2: "Management of intoxication due to overdose of thyroid hormones"</p> <p>Title 3: "Management of intoxication due to overdose of antihistamine drugs"</p> <p>Course: Management of acute intoxications in neonates and Children</p> <p>Title 1: "Management of intoxications due to narcotic, psychotropic and hallucinogen drugs and alcohol"</p> <p>Title 2: "Management of the patients with Methahemoglobinemia"</p>
2011	<p>Course: CRRT in neonates and kids; Title: "Basics of critical care medicine for the pediatric nephrologist"</p>

Courses/Congresses organized by Dr .Di Nardo, Matteo

2017 (Qatar)	International course: SWAC ELSO neonatal and pediatric ECMO
2016 (Italy)	International course: EuroELSO neonatal and pediatric ECMO
2014 (Italy)	National Course: ECMO simulation course
2013 (Italy)	National Congress: Management of neonatal and pediatric respiratory failure with Extracorporeal life support

Books and Chapters

<ul style="list-style-type: none"> • Chapter 22: Echocardiography in neonatal and intensive care unit (Dr. Matteo Di Nardo, Dr S. Picardo); In: Echocardiography in Critical Care; Author: Fabio Guarracino; Edition Elsevier 2013 • Chapter 60: "Immunodeficiency and ECLS"; in: Extracorporeal Life Support: The ELSO Red Book 5th Edition. Editors: Thomas V. Brogan, Laurence Lequier, Roberto Lorusso, Graeme MacLaren, Giles Peek • Chapter 202: "Multiple Organ Dysfunction in the Pediatric Intensive Care Unit"; in: Critical Care Nephrology. Editors: Claudio Ronco, Rinaldo Bellomo, John Kellum, Zaccaria Ricci. 3rd Edition Elsevier 2018
--

- “EXTRA-CORPOREAL LIFE SUPPORT AS A BRIDGE TO TRANSPLANTATION” in “Brain death, Organ donation and transplantation. How to make real all over the world the immense gift of a new life” Oxford University Press

Bibliometrics and Citations analysis according to Scopus and Web of Science

H-index: 22 (Scopus)

Scientific Publications

1: Alessandri F, Di Nardo M, Ramanathan K, Brodie D, MacLaren G. Extracorporeal membrane oxygenation for COVID-19-related acute respiratory distress syndrome: a narrative review. *J Intensive Care*. 2023 Feb 8;11(1):5. doi: 10.1186/s40560-023-00654-7. PMID: 36755270; PMCID: PMC9907879.

2: Regiroli G, Loi B, Pezza L, Sartorius V, Foti A, Barra PF, Centorrino R, Di Nardo M, De Luca D. Continuous Venovenous Hemofiltration Performed by Neonatologists With Cardio-Renal Pediatric Dialysis Emergency Machine to Treat Fluid Overload During Multiple Organ Dysfunction Syndrome: A Case Series. *Pediatr Crit Care Med*. 2023 Jan 16. doi: 10.1097/PCC.0000000000003177. Epub ahead of print. PMID: 36728157.

3: Fleig M, Müller T, Antonini VM, Riera J, Belliato M, Broman LM, Fowles JA, Belohlavek J, Lorusso R, Vercaemst L, Jones T, Roeleveld PP, Di Nardo M, Barrett N, Swol J. Extracorporeal life support provision in COVID-19 patients - An international EuroELSO 2022 update survey. *Perfusion*. 2023 Jan 10:2676591221151034. doi: 10.1177/02676591221151034. Epub ahead of print. PMID:

36625181; PMID: PMC9834627.

4: Sansone V, Cancani F, Cecchetti C, Rossi A, Gagliardi C, Di Nardo M, Satta T, De Ranieri C, Dall'Oglio I, Tiozzo E, Gawronski O. Staff perception of the implementation, enablers and barriers to pediatric intensive care unit diary writing: A qualitative study. *Intensive Crit Care Nurs.* 2023 Apr;75:103351. doi: 10.1016/j.iccn.2022.103351. Epub 2022 Dec 7. PMID: 36496317.

5: Li L, Li J, Hu C, Di Nardo M, Srinivasan V, Adamko DJ, Sun J, Du Y, Zeng X. Effectiveness of polyvalent bacterial lysate for pediatric asthma control: a retrospective propensity score-matched cohort study. *Transl Pediatr.* 2022 Oct;11(10):1697-1703. doi: 10.21037/tp-22-489. PMID: 36345454; PMID: PMC9636455.

6: Ricci Z, Colosimo D, Cumbo S, L'Erario M, Duchini P, Rufini P, Perrotta D, De Sanctis F, Di Nardo M, Amigoni A, Pulitanò S; MIS-C PICU Italian Study Group. Multisystem Inflammatory Syndrome in Children and Acute Kidney Injury: Retrospective Study of Five Italian PICUs. *Pediatr Crit Care Med.* 2022 Jul 1;23(7):e361-e365. doi: 10.1097/PCC.0000000000002955. Epub 2022 Apr 18. PMID: 35435870.

7: Buonsenso D, Salerno G, Soderò G, Mariani F, Pisapia L, Gelormini C, Di Nardo M, Valentini P, Scoppettuolo G, Biasucci DG. Catheter salvage strategies in children with central venous catheter-related or -associated bloodstream infections: a systematic review and meta-analysis. *J Hosp Infect.* 2022 Jul;125:1-20. doi: 10.1016/j.jhin.2022.03.010. Epub 2022 Apr 4. PMID: 35390396.

8: Gawronski O, Sansone V, Cancani F, Di Nardo M, Rossi A, Gagliardi C, De Ranieri C, Satta T, Dall'Oglio I, Tiozzo E, Alvaro R, Raponi M, Cecchetti C. Implementation of paediatric intensive care unit diaries: Feasibility and

opinions of parents and healthcare providers. *Aust Crit Care*. 2022 Mar 16;S1036-7314(22)00012-1. doi: 10.1016/j.aucc.2022.01.011. Epub ahead of print. PMID: 35305896.

9: Lindell RB, Fitzgerald JC, Rowan CM, Flori HR, Di Nardo M, Napolitano N, Traynor DM, Lenz KB, Emeriaud G, Jeyapalan A, Nishisaki A; National Emergency Airway Registry for Children (NEAR4KIDS) and Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) Network. The Use and Duration of Preintubation Respiratory Support Is Associated With Increased Mortality in Immunocompromised Children With Acute Respiratory Failure. *Crit Care Med*. 2022 Jul 1;50(7):1127-1137. doi: 10.1097/CCM.0000000000005535. Epub 2022 Mar 14. PMID: 35275593; PMCID: PMC9707852.

10: Di Nardo M, De Piero ME, Hoskote A, Belohlavek J, Lorusso R; EuroECMO neonatal and paediatric COVID-19 Working Group and EuroELSO Steering Committee. Extracorporeal membrane oxygenation in children with COVID-19 and PIMS-TS during the second and third wave. *Lancet Child Adolesc Health*. 2022 Apr;6(4):e14-e15. doi: 10.1016/S2352-4642(22)00065-7. Epub 2022 Mar 4. PMID: 35248190; PMCID: PMC8896737.

11: Di Nardo M, Franceschini A, Tissieres P, Chinali M. What Is New on Paediatric Echocardiography for the Diagnosis, Management and Follow-Up of the Multisystem Inflammatory Syndrome Associated with COVID-19? *Children (Basel)*. 2022 Jan 24;9(2):146. doi: 10.3390/children9020146. PMID: 35204868; PMCID: PMC8869951.

12: Guner YS, Harting MT, Jancelewicz T, Yu PT, Di Nardo M, Nguyen DV. Variation across centers in standardized mortality ratios for congenital diaphragmatic hernia receiving extracorporeal life support. *J Pediatr Surg*. 2022 Nov;57(11):606-613. doi: 10.1016/j.jpedsurg.2022.01.022. Epub 2022 Jan 31. PMID:

35193755.

13: Geisser DL, Thiagarajan RR, Scholtens D, Kuang A, Petito LC, Costello JM, Monge MC, Di Nardo M, Marino BS. Development of a Model for the Pediatric Survival After Venous-Arterial Extracorporeal Membrane Oxygenation Score: The Pedi-SAVE Score. *ASAIO J.* 2022 Nov 1;68(11):1384-1392. doi: 10.1097/MAT.0000000000001678. Epub 2022 Feb 15. PMID: 35184092.

14: Slooff V, Hoogendoorn R, Nielsen JSA, Pappachan J, Amigoni A, Caramelli F, Aziz O, Wildschut E, Verbruggen S, Crazzolara R, Dohna-Schwake C, Potratz J, Willems J, Llevadias J, Moscatelli A, Montaguti A, Bottari G, Di Nardo M, Schlapbach L, Wösten-van Asperen R; POKER (PICU Oncology Kids in Europe Research group) research consortium of ESPNIC (European Society of Paediatric Neonatal Intensive Care). Role of extracorporeal membrane oxygenation in pediatric cancer patients: a systematic review and meta-analysis of observational studies. *Ann Intensive Care.* 2022 Jan 29;12(1):8. doi: 10.1186/s13613-022-00983-0. PMID: 35092500; PMCID: PMC8800958.

15: Cavallaro G, Di Nardo M, Hoskote A, Tibboel D. Editorial: Neonatal ECMO in 2019: Where Are We Now? Where Next? *Front Pediatr.* 2022 Jan 4;9:796670. doi: 10.3389/fped.2021.796670. PMID: 35059363; PMCID: PMC8764394.

16: Ghafoor S, Fan K, Di Nardo M, Talleur AC, Saini A, Potera RM, Lehmann L, Annich G, Wang F, McArthur J, Sandhu H. Extracorporeal Membrane Oxygenation Candidacy in Pediatric Patients Treated With Hematopoietic Stem Cell Transplant and Chimeric Antigen Receptor T-Cell Therapy: An International Survey. *Front Oncol.* 2021 Dec 22;11:798236. doi: 10.3389/fonc.2021.798236. PMID: 35004323; PMCID: PMC8727600.

17: Di Nardo M, Alunni Fegatelli D, Marano M, Danoff J, Kim HK. Use of

Extracorporeal Membrane Oxygenation in Acutely Poisoned Pediatric Patients in United States: A Retrospective Analysis of the Extracorporeal Life Support Registry From 2003 to 2019. *Crit Care Med.* 2022 Apr 1;50(4):655-664. doi: 10.1097/CCM.0000000000005436. PMID: 34995213.

18: Bhalla AK, Klein MJ, Modesto I Alapont V, Emeriaud G, Kneyber MCJ, Medina A, Cruces P, Diaz F, Takeuchi M, Maddux AB, Mourani PM, Camilo C, White BR, Yehya N, Pappachan J, Di Nardo M, Shein S, Newth C, Khemani R; Pediatric Acute Lung Injury and Sepsis Investigators (PALISI) Network. Mechanical power in pediatric acute respiratory distress syndrome: a PARDIE study. *Crit Care.* 2022 Jan 3;26(1):2. doi: 10.1186/s13054-021-03853-6. PMID: 34980228; PMCID: PMC8722295.

19: Di Nardo M, Boldrini F, Broccati F, Cancani F, Satta T, Stoppa F, Genuini L, Zampini G, Perdichizzi S, Bottari G, Fischer M, Gawronski O, Bonetti A, Piermarini I, Recchiuti V, Leone P, Rossi A, Tabarini P, Biasucci D, Villani A, Raponi M, Cecchetti C, Choong K. The LiberAction Project: Implementation of a Pediatric Liberation Bundle to Screen Delirium, Reduce Benzodiazepine Sedation, and Provide Early Mobilization in a Human Resource-Limited Pediatric Intensive Care Unit. *Front Pediatr.* 2021 Dec 8;9:788997. doi: 10.3389/fped.2021.788997. PMID: 34956989; PMCID: PMC8692861.

20: Di Nardo M, Tikkanen J, Husain S, Singer LG, Cypel M, Ferguson ND, Keshavjee S, Del Sorbo L. Postoperative Management of Lung Transplant Recipients in the Intensive Care Unit. *Anesthesiology.* 2022 Mar 1;136(3):482-499. doi: 10.1097/ALN.0000000000004054. PMID: 34910811.

21: Di Nardo M, Ahmad AH, Merli P, Zinter MS, Lehman LE, Rowan CM, Steiner ME, Hingorani S, Angelo JR, Abdel-Azim H, Khazal SJ, Shoberu B, McArthur J, Bajwa R, Ghafoor S, Shah SH, Sandhu H, Moody K, Brown BD, Mireles ME, Stepan D, Olson T, Raman L, Bridges B, Duncan CN, Choi SW, Swinford R, Paden M, Fortenberry JD,

Peek G, Tissieres P, De Luca D, Locatelli F, Corbacioglu S, Kneyber M, Franceschini A, Nadel S, Kumpf M, Loreti A, Wösten-Van Asperen R, Gawronski O, Brierley J, MacLaren G, Mahadeo KM. Extracorporeal membrane oxygenation in children receiving haematopoietic cell transplantation and immune effector cell therapy: an international and multidisciplinary consensus statement. *Lancet Child Adolesc Health*. 2022 Feb;6(2):116-128. doi: 10.1016/S2352-4642(21)00336-9. Epub 2021 Dec 9. PMID: 34895512; PMCID: PMC9372796.

22: Di Nardo M, Fischer M, Ranieri VM. Electrical Impedance Tomography to Set Positive End Expiratory Pressure During Pediatric Extracorporeal Membrane Oxygenation for Respiratory Failure... Is it Feasible? *ASAIO J*. 2022 Aug 1;68(8):e136-e138. doi: 10.1097/MAT.0000000000001612. Epub 2021 Nov 10. PMID: 34772846.

23: Merli P, Pagliara D, Galaverna F, Li Pira G, Andreani M, Leone G, Amodio D, Pinto RM, Bertaina A, Bertaina V, Mastronuzzi A, Strocchio L, Boccieri E, Pende D, Falco M, Di Nardo M, Del Bufalo F, Algeri M, Locatelli F. TCR $\alpha\beta$ /CD19 depleted HSCT from an HLA-haploidentical relative to treat children with different nonmalignant disorders. *Blood Adv*. 2022 Jan 11;6(1):281-292. doi: 10.1182/bloodadvances.2021005628. PMID: 34592755; PMCID: PMC8753220.

24: Cvetkovic M, Chiarini G, Belliato M, Delnoij T, Zanatta P, Taccone FS, Miranda DDR, Davidson M, Matta N, Davis C, IJsselstijn H, Schmidt M, Broman LM, Donker DW, Vlasselaers D, David P, Di Nardo M, Muellenbach RM, Mueller T, Barrett NA, Lorusso R, Belohlavek J, Hoskote A. International survey of neuromonitoring and neurodevelopmental outcome in children and adults supported on extracorporeal membrane oxygenation in Europe. *Perfusion*. 2023 Mar;38(2):245-260. doi: 10.1177/02676591211042563. Epub 2021 Sep 22. PMID: 34550013.

25: Fortas F, Di Nardo M, Yousef N, Humbert M, De Luca D. Response to: Life-threatening PPHN refractory to NO: therapeutic algorithm. *Eur J Pediatr.* 2022 Jan;181(1):425-426. doi: 10.1007/s00431-021-04228-3. Epub 2021 Aug 26. PMID: 34435230.

26: Sansone V, Cancani F, Gagliardi C, Satta T, Cecchetti C, de Ranieri C, Di Nardo M, Rossi A, Dall'Oglio I, Alvaro R, Tiozzo E, Gawronski O. Narrative diaries in the paediatric intensive care unit: A thematic analysis. *Nurs Crit Care.* 2022 Jan;27(1):45-54. doi: 10.1111/nicc.12680. Epub 2021 Jul 13. PMID: 34256419.

27: Ali A, Pettenuzzo T, Ramadan K, Farrell A, Di Nardo M, Liu M, Keshavjee S, Fan E, Cypel M, Del Sorbo L. Surfactant therapy in lung transplantation: A systematic review and meta-analysis. *Transplant Rev (Orlando).* 2021 Dec;35(4):100637. doi: 10.1016/j.tre.2021.100637. Epub 2021 Jun 30. PMID: 34224988.

28: Fortas F, Di Nardo M, Yousef N, Humbert M, De Luca D. Life-threatening PPHN refractory to nitric oxide: proposal for a rational therapeutic algorithm. *Eur J Pediatr.* 2021 Aug;180(8):2379-2387. doi: 10.1007/s00431-021-04138-4. Epub 2021 Jun 6. PMID: 34091748; PMCID: PMC8179956.

29: Marano M, Rossi F, Ravà L, Khalil Ramla M, Pisani M, Bottari G, Genuini L, Zampini G, Nunziata J, Reale A, Barbieri MA, Celeani F, Di Nardo M, Cecchetti C, Stoppa F, Villani A, Raponi M, Livadiotti S, Pontrelli G. Acute toxic exposures in children: analysis of a three year registry managed by a Pediatric poison control Center in Italy. *Ital J Pediatr.* 2021 Jun 2;47(1):125. doi: 10.1186/s13052-021-01071-y. PMID: 34078407; PMCID: PMC8170623.

30: Di Nardo M, Del Sorbo L, Sage A, Ma J, Liu M, Yeung JC, Valero J, Ghany R,

Cypel M, Keshavjee S. Predicting donor lung acceptance for transplant during ex vivo lung perfusion: The EX vivo lung Perfusion pREdiction (EXPIRE). *Am J Transplant*. 2021 Nov;21(11):3704-3713. doi: 10.1111/ajt.16616. Epub 2021 Jun 11. PMID: 33872459.

31: Ragoonanan D, Khazal SJ, Abdel-Azim H, McCall D, Cuglievan B, Tambaro FP, Ahmad AH, Rowan CM, Gutierrez C, Schadler K, Li S, Di Nardo M, Chi L, Gulbis AM, Shoberu B, Mireles ME, McArthur J, Kapoor N, Miller J, Fitzgerald JC, Tewari P, Petropoulos D, Gill JB, Duncan CN, Lehmann LE, Hingorani S, Angelo JR, Swinford RD, Steiner ME, Tejada FNH, Martin PL, Auletta J, Choi SW, Bajwa R, Garnes ND, Kebriaei P, Rezvani K, Wierda WG, Neelapu SS, Shpall EJ, Corbacioglu S, Mahadeo KM. Author Correction: Diagnosis, grading and management of toxicities from immunotherapies in children, adolescents and young adults with cancer. *Nat Rev Clin Oncol*. 2021 Jul;18(7):468. doi: 10.1038/s41571-021-00497-x. Erratum for: *Nat Rev Clin Oncol*. 2021 Jul;18(7):435-453. PMID: 33731864.

32: Sansone V, Dall'Oglio I, Gesualdo F, Cancani F, Cecchetti C, Di Nardo M, Rossi A, De Ranieri C, Alvaro R, Tiozzo E, Gawronski O. Narrative Diaries in Pediatrics: A Scoping Review. *J Pediatr Nurs*. 2021 Jul-Aug;59:e93-e105. doi: 10.1016/j.pedn.2021.02.006. Epub 2021 Feb 20. PMID: 33622642.

33: Guner YS, Delaplain PT, Schomberg J, Di Nardo M, Yu PT, Lam D, Jancelewicz T, Harting MT, Starr JP, Nguyen DV; ELSO CDH Interest Group. Risk Factors for Hemolysis During Extracorporeal Life Support for Congenital Diaphragmatic Hernia. *J Surg Res*. 2021 Jul;263:14-23. doi: 10.1016/j.jss.2021.01.007. Epub 2021 Feb 20. PMID: 33621745.

34: Ragoonanan D, Khazal SJ, Abdel-Azim H, McCall D, Cuglievan B, Tambaro FP, Ahmad AH, Rowan CM, Gutierrez C, Schadler K, Li S, Di Nardo M, Chi L, Gulbis AM, Shoberu B, Mireles ME, McArthur J, Kapoor N, Miller J, Fitzgerald JC, Tewari P,

Petropoulos D, Gill JB, Duncan CN, Lehmann LE, Hingorani S, Angelo JR, Swinford RD, Steiner ME, Hernandez Tejada FN, Martin PL, Auletta J, Choi SW, Bajwa R, Dailey Garnes N, Kebriaei P, Rezvani K, Wierda WG, Neelapu SS, Shpall EJ, Corbacioglu S, Mahadeo KM. Diagnosis, grading and management of toxicities from immunotherapies in children, adolescents and young adults with cancer. *Nat Rev Clin Oncol.* 2021 Jul;18(7):435-453. doi: 10.1038/s41571-021-00474-4. Epub 2021 Feb 19. Erratum in: *Nat Rev Clin Oncol.* 2021 Mar 17;; PMID: 33608690; PMCID: PMC9393856.

35: Amodeo I, Di Nardo M, Raffaelli G, Kamel S, Macchini F, Amodeo A, Mosca F, Cavallaro G. Neonatal respiratory and cardiac ECMO in Europe. *Eur J Pediatr.* 2021 Jun;180(6):1675-1692. doi: 10.1007/s00431-020-03898-9. Epub 2021 Feb 5. PMID: 33547504; PMCID: PMC7864623.

36: Guner Y, Jancelewicz T, Di Nardo M, Yu P, Brindle M, Vogel AM, Gowda SH, Grover TR, Johnston L, Mahmood B, Gray B, Chapman R, Keene S, Rintoul N, Cleary J, Ashrafi AH, Harting MT; Elso CDH Interest Group. Management of Congenital Diaphragmatic Hernia Treated With Extracorporeal Life Support: Interim Guidelines Consensus Statement From the Extracorporeal Life Support Organization. *ASAIO J.* 2021 Feb 1;67(2):113-120. doi: 10.1097/MAT.0000000000001338. Erratum in: *ASAIO J.* 2022 Jul 1;68(7):e132. PMID: 33512912.

37: Belliato M, Epis F, Cremascoli L, Ferrari F, Quattrone MG, Fisser C, Malfertheiner MV, Taccone FS, Di Nardo M, Broman LM, Lorusso R. Mechanical Power during Venovenous Extracorporeal Membrane Oxygenation Initiation: A Pilot-Study. *Membranes (Basel).* 2021 Jan 2;11(1):30. doi: 10.3390/membranes11010030. PMID: 33401668; PMCID: PMC7824596.

38: Di Nardo M, Annoni F, Su F, Belliato M, Lorusso R, Broman LM, Malfertheiner

M, Creteur J, Taccone FS. Evaluation of a New Extracorporeal CO₂ Removal Device in an Experimental Setting. *Membranes (Basel)*. 2020 Dec 23;11(1):8. doi: 10.3390/membranes11010008. PMID: 33374762; PMCID: PMC7823796.

39: Cho HJ, Ogino MT, Jeong IS, Paden ML, Antonini VM, Marwali EM, Fraser JF, MacLaren G, Belohlavek J, Di Nardo M. Pediatric intensive care preparedness and ECMO availability in children with COVID-19: An international survey. *Perfusion*. 2021 Sep;36(6):637-639. doi: 10.1177/0267659120981810. Epub 2020 Dec 19. PMID: 33342366.

40: Benazzo A, Schwarz S, Frommlet F, Sinn K, Schweiger T, Klikovits T, Hoda AM, Moser B, Matilla JR, Renyi Vamos F, Lang G, Jaksch P, Di Nardo M, Del Sorbo L, Taghavi S, Keshavjee S, Klepetko W, Cypel M, Hoetzenecker K. Donor ventilation parameters as predictors for length of mechanical ventilation after lung transplantation: Results of a prospective multicenter study. *J Heart Lung Transplant*. 2021 Jan;40(1):33-41. doi: 10.1016/j.healun.2020.10.008. Epub 2020 Oct 28. PMID: 33246712.

41: Schwarz S, Benazzo A, Dunkler D, Muckenhuber M, Sorbo LD, Di Nardo M, Sinn K, Moser B, Matilla JR, Lang G, Taghavi S, Vamos FR, Jaksch P, Cypel M, Keshavjee S, Klepetko W, Hoetzenecker K. Ventilation parameters and early graft function in double lung transplantation. *J Heart Lung Transplant*. 2021 Jan;40(1):4-11. doi: 10.1016/j.healun.2020.10.003. Epub 2020 Oct 13. PMID: 33144029.

42: Singh Y, Villaescusa JU, da Cruz EM, Tibby SM, Bottari G, Saxena R, Guillén M, Hecce JL, Di Nardo M, Cecchetti C, Brierley J, de Boode W, Lemson J. Recommendations for hemodynamic monitoring for critically ill children-expert consensus statement issued by the cardiovascular dynamics section of the European Society of Paediatric and Neonatal Intensive Care (ESPNIC). *Crit Care*.

2020 Oct 22;24(1):620. doi: 10.1186/s13054-020-03326-2. PMID: 33092621; PMCID: PMC7579971.

43: Di Nardo M, Lorusso R, Guner Y, Schomberg J, De Luca D. Feasibility of Lung Ultrasound to Monitor Aeration in Children Supported With Extracorporeal Membrane Oxygenation for Severe Acute Respiratory Distress Syndrome. *ASAIO J.* 2021 Jun 1;67(6):e104-e106. doi: 10.1097/MAT.0000000000001264. PMID: 33021753.

44: Di Nardo M, Hoskote A, Thiruchelvam T, Lillie J, Horan M, Belda Hofheinz S, Dupic L, Gimeno R, de Piero ME, Lo Coco V, Roeleveld P, Davidson M, Jones T, Broman LM, Lorusso R, Belohlavek J; EuroELSO Neonatal & Pediatric Working Group & collaborators on COVID-19. Extracorporeal Membrane Oxygenation in Children with Coronavirus Disease 2019: Preliminary Report from the Collaborative European Chapter of the Extracorporeal Life Support Organization Prospective Survey. *ASAIO J.* 2021 Feb 1;67(2):121-124. doi: 10.1097/MAT.0000000000001309. PMID: 33009172; PMCID: PMC7846251.

45: DI Nardo M, Lonero M, Staffieri F, DI Mussi R, Murgolo F, Lorusso P, Pham T, Picardo SG, Perrotta D, Cecchetti C, Ravà L, Grasso S. Can visual inspection of the electrical activity of the diaphragm improve the detection of patient-ventilator asynchronies by pediatric critical care physicians? *Minerva Anestesiol.* 2021 Mar;87(3):319-324. doi: 10.23736/S0375-9393.20.14543-7. Epub 2020 Aug 4. PMID: 32755090.

46: Di Nardo M, van Leeuwen G, Loreti A, Barbieri MA, Guner Y, Locatelli F, Ranieri VM. A literature review of 2019 novel coronavirus (SARS-CoV2) infection in neonates and children. *Pediatr Res.* 2021 Apr;89(5):1101-1108. doi: 10.1038/s41390-020-1065-5. Epub 2020 Jul 17. PMID: 32679582.

47: Kache S, Chisti MJ, Gumbo F, Mupere E, Zhi X, Nallasamy K, Nakagawa S, Lee

JH, Di Nardo M, de la Oliva P, Katyal C, Anand KJS, de Souza DC, Lanzotti VS, Carcillo J. COVID-19 PICU guidelines: for high- and limited-resource settings. *Pediatr Res*. 2020 Nov;88(5):705-716. doi: 10.1038/s41390-020-1053-9. Epub 2020 Jul 7. PMID: 32634818; PMCID: PMC7577838.

48: Di Nardo M, Dalle Ore A, Starr J, Cecchetti C, Amodeo A, Testa G. Ethics and extracorporeal membrane oxygenation during coronavirus disease 2019 outbreak. *Perfusion*. 2020 Sep;35(6):562-564. doi: 10.1177/0267659120937545. Epub 2020 Jun 25. PMID: 32580648.

49: Broman LM, Westlund CJ, Gilbers M, Perry da Câmara L, Prah Wittberg L, Taccone FS, Malfertheiner MV, Di Nardo M, Swol J, Vercaemst L, Barrett NA, Pappalardo F, Belohlávek J, Belliato M, Lorusso R. Pressure and flow properties of dual-lumen cannulae for extracorporeal membrane oxygenation. *Perfusion*. 2020 Nov;35(8):736-744. doi: 10.1177/0267659120926009. Epub 2020 Jun 5. PMID: 32500818.

50: Lepper PM, Barrett NA, Swol J, Lorusso R, Di Nardo M, Belliato M, Bělohávek J, Broman LM. Perception of prolonged extracorporeal membrane oxygenation in Europe: an EuroELSO survey. *Perfusion*. 2020 May;35(1_suppl):81-85. doi: 10.1177/0267659120909740. PMID: 32397893.

51: Swol J, Lorusso R, Di Nardo M, Vercaemst L, Finney SJ, Jones TJ, Barrett NA, Bělohávek J. ECLS Training and Simulation - Evaluation of the 8th Educational Corner of the EuroELSO Congress 2019 Held in Barcelona. *Perfusion*. 2020 May;35(1_suppl):86-92. doi: 10.1177/0267659120909001. PMID: 32397888.

52: Malfertheiner MV, Broman LM, Vercaemst L, Belliato M, Aliberti A, Di Nardo M, Swol J, Barrett N, Pappalardo F, Bělohávek J, Taccone FS, Millar JE, Crawford L, Lorusso R, Suen JY, Fraser JF. Ex vivo models for research in

extracorporeal membrane oxygenation: a systematic review of the literature. *Perfusion*. 2020 May;35(1_suppl):38-49. doi: 10.1177/0267659120907439. PMID: 32397884.

53: Bottari G, Merli P, Guzzo I, Stoppa F, Ruggeri A, Di Nardo M, Del Bufalo F, Galaverna F, Corrado C, Locatelli F. Multimodal Therapeutic Approach of Cytokine Release Syndrome Developing in a Child Given Chimeric Antigen Receptor-Modified T Cell Infusion. *Crit Care Explor*. 2020 Jan 29;2(1):e0071. doi: 10.1097/CCE.000000000000071. PMID: 32166291; PMCID: PMC7063902.

54: Brogan TV, Thiagarajan RR, Lorusso R, McMullan DM, Di Nardo M, Ogino MT, Dalton HJ, Burke CR, Capatos G. The use of extracorporeal membrane oxygenation in human immunodeficiency virus-positive patients: a review of a multicenter database. *Perfusion*. 2020 Nov;35(8):772-777. doi: 10.1177/0267659120906966. Epub 2020 Mar 6. PMID: 32141382.

55: Delaplain PT, Ehwerhemuepha L, Nguyen DV, Di Nardo M, Jancelewicz T, Awan S, Yu PT, Guner YS; ELSO CDH Interest Group. The development of multiorgan dysfunction in CDH-ECMO neonates is associated with the level of pre-ECMO support. *J Pediatr Surg*. 2020 May;55(5):830-834. doi: 10.1016/j.jpedsurg.2020.01.026. Epub 2020 Feb 14. PMID: 32067809.

56: Bottari G, Guzzo I, Marano M, Stoppa F, Ravà L, Di Nardo M, Cecchetti C. Hemoperfusion with Cytosorb in pediatric patients with septic shock: A retrospective observational study. *Int J Artif Organs*. 2020 Sep;43(9):587-593. doi: 10.1177/0391398820902469. Epub 2020 Jan 31. PMID: 32003289.

57: Protti A, Iapichino GE, Di Nardo M, Panigada M, Gattinoni L. Anticoagulation Management and Antithrombin Supplementation Practice during Venovenous Extracorporeal Membrane Oxygenation: A Worldwide Survey. *Anesthesiology*. 2020

Mar;132(3):562-570. doi: 10.1097/ALN.0000000000003044. PMID: 31764152.

58: van Leeuwen Bichara GC, Furlanetto B, Gondim Teixeira L, Di Nardo M. Is peripheral venovenous-arterial ECMO a feasible alternative to central cannulation for pediatric refractory septic shock? *Intensive Care Med.* 2019 Nov;45(11):1658-1660. doi: 10.1007/s00134-019-05720-z. Epub 2019 Sep 16. PMID: 31529351.

59: Di Nardo M, Grasso S. Should We Set Tidal Volume in Children Using the Driving Pressure? *Pediatr Crit Care Med.* 2019 Sep;20(9):905. doi: 10.1097/PCC.0000000000002052. PMID: 31483389.

60: Di Nardo M, Dalle Ore A, Testa G, Annich G, Piervincenzi E, Zampini G, Bottari G, Cecchetti C, Amodeo A, Lorusso R, Del Sorbo L, Kirsch R. Principlism and Personalism. Comparing Two Ethical Models Applied Clinically in Neonates Undergoing Extracorporeal Membrane Oxygenation Support. *Front Pediatr.* 2019 Jul 30;7:312. doi: 10.3389/fped.2019.00312. PMID: 31417882; PMCID: PMC6682695.

61: Di Nardo M, Morin L, de Luca D, Tissieres P. Venoarterial Extracorporeal Membrane Oxygenation in Septic Shock...Urgent Time for Defining Indication! *Pediatr Crit Care Med.* 2019 Jun;20(6):594. doi: 10.1097/PCC.0000000000001889. PMID: 31162367.

62: Al-Fares A, Fan E, Husain S, Di Nardo M, Cypel M, Keshavjee S, Herridge MS, Del Sorbo L. Veno-venous extracorporeal life support for blastomycosis-associated acute respiratory distress syndrome. *Perfusion.* 2019 Nov;34(8):660-670. doi: 10.1177/0267659119844391. Epub 2019 Apr 26. PMID: 31027465.

63: Broman LM, Prahl Wittberg L, Westlund CJ, Gilbers M, Perry da Câmara L, Swol

J, Taccone FS, Malfertheiner MV, Di Nardo M, Vercaemst L, Barrett NA, Pappalardo F, Belohlavek J, Müller T, Belliato M, Lorusso R. Pressure and flow properties of cannulae for extracorporeal membrane oxygenation I: return (arterial) cannulae. *Perfusion*. 2019 Apr;34(1_suppl):58-64. doi: 10.1177/0267659119830521. PMID: 30966910.

64: Broman LM, Prahl Wittberg L, Westlund CJ, Gilbers M, Perry da Câmara L, Westin J, Taccone FS, Malfertheiner MV, Di Nardo M, Swol J, Vercaemst L, Barrett NA, Pappalardo F, Belohlavek J, Müller T, Belliato M, Lorusso R. Pressure and flow properties of cannulae for extracorporeal membrane oxygenation II: drainage (venous) cannulae. *Perfusion*. 2019 Apr;34(1_suppl):65-73. doi: 10.1177/0267659119830514. PMID: 30966909.

65: Broman LM, Dirnberger DR, Malfertheiner MV, Aokage T, Morberg P, Næsheim T, Pappalardo F, Di Nardo M, Preston T, Burrell AJC, Daly I, Harvey C, Mason P, Philipp A, Bartlett RH, Lynch W, Belliato M, Taccone FS. International Survey on Extracorporeal Membrane Oxygenation Transport. *ASAIO J*. 2020 Feb;66(2):214-225. doi: 10.1097/MAT.0000000000000997. PMID: 30946060.

66: Delaplain PT, Harting MT, Jancelewicz T, Zhang L, Yu PT, Di Nardo M, Chen Y, Stein JE, Ford HR, Nguyen DV, Guner Y. Potential survival benefit with repair of congenital diaphragmatic hernia (CDH) after extracorporeal membrane oxygenation (ECMO) in select patients: Study by ELSO CDH Interest Group. *J Pediatr Surg*. 2019 Jun;54(6):1132-1137. doi: 10.1016/j.jpedsurg.2019.02.052. Epub 2019 Mar 1. PMID: 30898399.

67: Broman LM, Taccone FS, Lorusso R, Malfertheiner MV, Pappalardo F, Di Nardo M, Belliato M, Bembea MM, Barbaro RP, Diaz R, Grazioli L, Pellegrino V, Mendonca MH, Brodie D, Fan E, Bartlett RH, McMullan MM, Conrad SA. The ELSO Maastricht Treaty for ECLS Nomenclature: abbreviations for cannulation configuration in

extracorporeal life support - a position paper of the Extracorporeal Life Support Organization. *Crit Care*. 2019 Feb 8;23(1):36. doi: 10.1186/s13054-019-2334-8. PMID: 30736845; PMCID: PMC6367794.

68: Delaplain PT, Jancelewicz T, Di Nardo M, Zhang L, Yu PT, Cleary JP, Morini F, Harting MT, Nguyen DV, Guner YS; Study by ELSO CDH Interest Group. Management preferences in ECMO mode for congenital diaphragmatic hernia. *J Pediatr Surg*. 2019 May;54(5):903-908. doi: 10.1016/j.jpedsurg.2019.01.019. Epub 2019 Jan 31. PMID: 30786989.

69: Bottari G, Di Nardo M, Gleeson J, Minoia F, Moscatelli A, Cecchetti C, Verrina EE. Extracorporeal blood purification techniques in children with hyper-inflammatory syndromes: a clinical overview. *Minerva Anesthesiol*. 2019 May;85(5):531-542. doi: 10.23736/S0375-9393.19.13189-6. Epub 2019 Feb 7. PMID: 30735018.

70: Marano M, Goffredo BM, Pisani M, Filippelli S, Cecchetti C, Drago F, Barbieri MA, Nunziata J, Genuini L, Di Nardo M. Pediatric extracorporeal cardiopulmonary resuscitation settled in an emergency department for a propafenone intentional intoxication. *Am J Emerg Med*. 2018 Nov;36(11):2132.e1-2132.e3. doi: 10.1016/j.ajem.2018.08.001. Epub 2018 Aug 3. PMID: 30082186.

71: Di Nardo M, David P, Stoppa F, Lorusso R, Raponi M, Amodeo A, Cecchetti C, Guner Y, Taccone FS. The introduction of a high-fidelity simulation program for training pediatric critical care personnel reduces the times to manage extracorporeal membrane oxygenation emergencies and improves teamwork. *J Thorac Dis*. 2018 Jun;10(6):3409-3417. doi: 10.21037/jtd.2018.05.77. PMID: 30069336; PMCID: PMC6051841.

72: Guner YS, Delaplain PT, Zhang L, Di Nardo M, Brogan TV, Chen Y, Cleary JP, Yu PT, Harting MT, Ford HR, Nguyen DV. Trends in Mortality and Risk Characteristics of Congenital Diaphragmatic Hernia Treated With Extracorporeal Membrane Oxygenation. *ASAIO J.* 2019 Jul;65(5):509-515. doi: 10.1097/MAT.0000000000000834. PMID: 29863628; PMCID: PMC6251767.

73: Di Nardo M, Vercaemst L, Swol J, Barret N, Taccone FS, Malfertheiner MV, Broman LM, Pappalardo F, Belohlavek J, Mueller T, Lorusso R, Lonero M, Belliato M; *on behalf of EuroELSO Workgroup "Innovation on ECMO and ECLS". A narrative review of the technical standards for extracorporeal life support devices (pumps and oxygenators) in Europe. *Perfusion.* 2018 Oct;33(7):553-561. doi: 10.1177/0267659118772452. Epub 2018 May 24. PMID: 29792775.

74: Di Nardo M, Lonero M, Pasotti E, Cancani F, Perrotta D, Cecchetti C, Stoppa F, Pirozzi N, La Salvia O, Nicolini A, Amodeo A, Patroniti N, Pesenti A. The first five years of neonatal and pediatric transports on extracorporeal membrane oxygenation in the center and south of Italy: The pediatric branch of the Italian "Rete Respira" network. *Perfusion.* 2018 May;33(1_suppl):24-30. doi: 10.1177/0267659118766829. PMID: 29788844.

75: Delaplain PT, Zhang L, Nguyen DV, Ashrafi AH, Yu PT, Di Nardo M, Chen Y, Starr J, Ford HR, Guner YS. Effect of pump type on outcomes in neonates with congenital diaphragmatic hernia requiring ECMO. *Perfusion.* 2018 May;33(1_suppl):71-79. doi: 10.1177/0267659118766729. PMID: 29788843; PMCID: PMC6294336.

76: Di Nardo M, Nunziata J, Stoppa F, Lonero M, Perrotta D, Cecchetti C, Grasso S. Single lung ventilation associated to ECMO: an alternative approach to manage ventilator-induced lung injuries in infants. *Minerva Anesthesiol.* 2019 Jan;85(1):90-91. doi: 10.23736/S0375-9393.18.12796-9. Epub 2018 May 15. PMID:

29774726.

77: Di Nardo M, Wildschut ED. Drugs pharmacokinetics during veno-venous extracorporeal membrane oxygenation in pediatrics. *J Thorac Dis.* 2018 Mar;10(Suppl 5):S642-S652. doi: 10.21037/jtd.2017.11.02. PMID: 29732182; PMCID: PMC5911549.

78: Marano M, Serafinelli J, Cairoli S, Martinelli D, Pisani M, Palumbo G, Cefalo MG, Cecchetti C, Di Nardo M, Falvella FS, Goffredo BM. Eltrombopag-Induced Acute Liver Failure in a Pediatric Patient: A Pharmacokinetic and Pharmacogenetic Analysis. *Ther Drug Monit.* 2018 Aug;40(4):386-388. doi: 10.1097/FTD.0000000000000522. PMID: 29683873.

79: Conrad SA, Broman LM, Taccone FS, Lorusso R, Malferttheiner MV, Pappalardo F, Di Nardo M, Belliato M, Grazioli L, Barbaro RP, McMullan DM, Pellegrino V, Brodie D, Bembea MM, Fan E, Mendonca M, Diaz R, Bartlett RH. The Extracorporeal Life Support Organization Maastricht Treaty for Nomenclature in Extracorporeal Life Support. A Position Paper of the Extracorporeal Life Support Organization. *Am J Respir Crit Care Med.* 2018 Aug 15;198(4):447-451. doi: 10.1164/rccm.201710-2130CP. PMID: 29614239; PMCID: PMC6118026.

80: Di Nardo M, Taccone FS, Swol J, Vercaemst L, Belliato M; EuroELSO Working Group "Innovation on ECMO and ECLS". ECCO2R: are we ready for the prime time? *Minerva Anesthesiol.* 2018 May;84(5):644-645. doi: 10.23736/S0375-9393.18.12742-8. Epub 2018 Mar 7. PMID: 29516711.

81: Guner YS, Nguyen DV, Zhang L, Chen Y, Harting MT, Rycus P, Barbaro R, Di Nardo M, Brogan TV, Cleary JP, Yu PT. Development and Validation of Extracorporeal Membrane Oxygenation Mortality-Risk Models for Congenital Diaphragmatic Hernia. *ASAIO J.* 2018 Nov/Dec;64(6):785-794. doi:

10.1097/MAT.0000000000000716. PMID: 29117038; PMCID: PMC5938163.

82: Malfertheiner MV, Broman LM, Belliato M, Venti A, Bader A, Taccone FS, Di Nardo M, Maj G, Pappalardo F. Management strategies in venovenous extracorporeal membrane oxygenation: a retrospective comparison from five European centres. *Crit Care Resusc.* 2017 Oct;19(Suppl 1):76-81. PMID: 29084505.

83: Delaplain PT, Zhang L, Chen Y, Nguyen DV, Di Nardo M, Cleary JP, Yu PT, Guner YS. Cannulating the contraindicated: effect of low birth weight on mortality in neonates with congenital diaphragmatic hernia on extracorporeal membrane oxygenation. *J Pediatr Surg.* 2017 Dec;52(12):2018-2025. doi: 10.1016/j.jpedsurg.2017.08.037. Epub 2017 Sep 2. PMID: 28941930; PMCID: PMC5723552.

84: Lorusso R, Taccone FS, Belliato M, Delnoij T, Zanatta P, Cvetkovic M, Davidson M, Belohlavek J, Matta N, Davis C, Ijsselstijn H, Mueller T, Muellenbach R, Donker D, David P, Di Nardo M, Vlasselaers D, Dos Reis Miranda D, Hoskote A; Euro-ELSO Working Group on Neurologic Monitoring and Outcome. Brain monitoring in adult and pediatric ECMO patients: the importance of early and late assessments. *Minerva Anesthesiol.* 2017 Oct;83(10):1061-1074. doi: 10.23736/S0375-9393.17.11911-5. Epub 2017 Jun 22. PMID: 28643997.

85: Lorusso R, Gelsomino S, Parise O, Di Mauro M, Barili F, Geskes G, Vizzardi E, Rycus PT, Muellenbach R, Mueller T, Pesenti A, Combes A, Peek G, Frenckner B, Di Nardo M, Swol J, Maessen J, Thiagarajan RR. Neurologic Injury in Adults Supported With Venovenous Extracorporeal Membrane Oxygenation for Respiratory Failure: Findings From the Extracorporeal Life Support Organization Database. *Crit Care Med.* 2017 Aug;45(8):1389-1397. doi: 10.1097/CCM.0000000000002502. PMID: 28538440.

86: Di Nardo M, Stoppa F, David P, Lorusso R, Ranieri VM, Mascia L. Reversed differential cyanosis during veno-arterial extracorporeal membrane oxygenation in infants: the reevaluation of an old phenomenon. *Eur J Heart Fail.* 2017 May;19 Suppl 2:117-119. doi: 10.1002/ejhf.855. PMID: 28470924.

87: Taccone FS, Malfertheiner MV, Ferrari F, Di Nardo M, Swol J, Broman LM, Vercaemst L, Barrett N, Pappalardo F, Belohlavek J, Mueller T, Lorusso R, Belliato M; EuroELSO Workgroup "Innovation on ECMO and ECLS". Extracorporeal CO₂ removal in critically ill patients: a systematic review. *Minerva Anesthesiol.* 2017 Jul;83(7):762-772. doi: 10.23736/S0375-9393.17.11835-3. Epub 2017 Apr 11. PMID: 28402093.

88: Di Molfetta A, Gandolfo F, Filippelli S, Perri G, Di Chiara L, Iacobelli R, Adorisio R, Favia I, Rizza A, Testa G, Di Nardo M, Amodeo A. The Use of Berlin Heart EXCOR VAD in Children Less than 10 kg: A Single Center Experience. *Front Physiol.* 2016 Dec 6;7:614. doi: 10.3389/fphys.2016.00614. PMID: 27999550; PMCID: PMC5138210.

89: Pappalardo F, Montisci A, Scandroglio A, Belliato M, Malfertheiner M, Broman M, David P, Lorusso R, Taccone F, Broccati F, Di Nardo M. Veno-Venous ECMO in Europe: are we all speaking the same language? *Minerva Anesthesiol.* 2017 Apr;83(4):424-425. doi: 10.23736/S0375-9393.16.11766-3. Epub 2016 Nov 9. PMID: 27827522.

90: Di Nardo M, MacLaren G, Marano M, Cecchetti C, Bernaschi P, Amodeo A. ECLS in Pediatric Cardiac Patients. *Front Pediatr.* 2016 Oct 7;4:109. doi: 10.3389/fped.2016.00109. PMID: 27774445; PMCID: PMC5053996.

91: Di Nardo M, Cairoli S, Goffredo BM, Stoppa F, D'Argenio P, Corsetti T, Ranieri VM. Therapeutic drug monitoring for meropenem after the extracorporeal

membrane oxygenation circuit change in children: is it necessary? *Minerva Anestesiol.* 2016 Sep;82(9):1018-9. Epub 2016 Apr 20. PMID: 27096330.

92: de Galasso L, Emma F, Picca S, Di Nardo M, Rossetti E, Guzzo I. Continuous renal replacement therapy in children: fluid overload does not always predict mortality. *Pediatr Nephrol.* 2016 Apr;31(4):651-9. doi: 10.1007/s00467-015-3248-6. Epub 2015 Nov 12. PMID: 26563114.

93: Rossetti E, Bianchi R, Di Nardo M, Picardo S. Lung ultrasound assessment of influenza A(H1N1)-associated ARDS in a child with acute lymphoblastic leukemia outbreak undergoing extracorporeal membrane oxygenation. *Paediatr Anaesth.* 2015 Dec;25(12):1301-2. doi: 10.1111/pan.12795. PMID: 26507922.

94: Di Nardo M, Merli P, Cecchetti C, Pasotti E, Bertaina A, Locatelli F. Progressive increase in D-dimer levels during extracorporeal membrane oxygenation can predict membrane oxygenator failure in children given hematopoietic stem cell transplantation? *J Crit Care.* 2016 Feb;31(1):262-3. doi: 10.1016/j.jcrc.2015.09.010. Epub 2015 Sep 25. PMID: 26476579.

95: Pedicelli S, Picca S, Di Nardo M, Perrotta D, Cecchetti C, Marano M. Treatment of boric acid overdose in two infants with Continuous Venovenous Hemodialysis. *Clin Toxicol (Phila).* 2015 Nov;53(9):920-2. doi: 10.3109/15563650.2015.1084000. Epub 2015 Sep 10. PMID: 26359673.

96: Di Nardo M, Pirozzi N, Pesenti A. Extubation during pediatric extracorporeal membrane oxygenation: is it always safe? *Pediatr Crit Care Med.* 2015 Jun;16(5):493-4. doi: 10.1097/PCC.0000000000000391. PMID: 26039437.

97: Lubrano R, Elli M, Stoppa F, Di Traglia M, Di Nardo M, Perrotta D, David P, Paoli S, Cecchetti C. Variations of the blood gas levels and thermodilutional

parameters during ICP monitoring after severe head trauma in children. *Childs Nerv Syst.* 2015 Aug;31(8):1273-81. doi: 10.1007/s00381-015-2700-z. Epub 2015 Apr 14. PMID: 25870026.

98: Ricci Z, Di Nardo M, Ronco C. Year in review 2013: Critical Care - nephrology. *Crit Care.* 2014 Oct 21;18(5):574. doi: 10.1186/s13054-014-0574-1. PMID: 25426759; PMCID: PMC4281925.

99: Di Nardo M, Locatelli F, Di Florio F, Cecchetti C, Amodeo A, Rutella S, Bertaina A. Extracorporeal membrane oxygenation as a bridge to allogeneic T-cell depleted hematopoietic stem cell transplantation in infants with severe combined immune deficiency: is it feasible? *Intensive Care Med.* 2014 Oct;40(10):1600-1. doi: 10.1007/s00134-014-3432-3. Epub 2014 Aug 12. PMID: 25112503.

100: Marano M, Pisani M, Stoppa F, Di Nardo M, Pirozzi N, Luca E, Pulitanò S, Conti G, Marzano L, De Luca D, Valentini P, Pietrini D, Piastra M. Antitoxin use and pediatric intensive care for viper bites in Rome, Italy. *Eur Rev Med Pharmacol Sci.* 2014;18(4):485-92. PMID: 24610614.

101: Di Nardo M, Locatelli F, Palmer K, Amodeo A, Lorusso R, Belliato M, Cecchetti C, Perrotta D, Picardo S, Bertaina A, Rutella S, Rycus P, Di Ciommo V, Holzgraefe B. Extracorporeal membrane oxygenation in pediatric recipients of hematopoietic stem cell transplantation: an updated analysis of the Extracorporeal Life Support Organization experience. *Intensive Care Med.* 2014 May;40(5):754-6. doi: 10.1007/s00134-014-3240-9. Epub 2014 Feb 21. PMID: 24556913.

102: Di Nardo M, Stoppa F, Marano M, Ricci Z, Barbieri MA, Cecchetti C. Ultrasound-guided left brachiocephalic vein cannulation in children with underlying bleeding disorders: a retrospective analysis. *Pediatr Crit Care Med.*

2014 Feb;15(2):e44-8. doi: 10.1097/01.pcc.0000436200.00089.fb. PMID: 24201856.

103: Di Nardo M, Li Pira G, Amodeo A, Cecchetti C, Giorda E, Ceccarelli S, Brescia LP, Pirozzi N, Rutella S, Locatelli F, Bertaina A. Adoptive immunotherapy with antigen-specific T cells during extracorporeal membrane oxygenation (ECMO) for adenovirus-related respiratory failure in a child given haploidentical stem cell transplantation. *Pediatr Blood Cancer*. 2014 Feb;61(2):376-9. doi: 10.1002/pbc.24753. Epub 2013 Aug 26. PMID: 24039155.

104: Cotugno N, Manno EC, Stoppa F, Sinibaldi S, Saffirio C, D'Argenio P, Marano M, Di Nardo M, Palma P. Severe parainfluenza pneumonia in a case of transient hypogammaglobulinemia of infancy. *BMJ Case Rep*. 2013 Jun 26;2013:bcr2013009959. doi: 10.1136/bcr-2013-009959. PMID: 23814123; PMCID: PMC3703058.

105: Cecchetti C, Elli M, Stoppa F, Di Nardo M, Pasotti E, Gentile I, Paoli S, Pirozzi N, Lubrano R. Neurogenic pulmonary edema and variations of hemodynamic volumetric parameters in children following head trauma. *Minerva Anesthesiol*. 2013 Oct;79(10):1140-6. Epub 2013 Jul 1. PMID: 23811625.

106: Ricci Z, Di Nardo M, Iacoella C, Netto R, Picca S, Cogo P. Pediatric RIFLE for acute kidney injury diagnosis and prognosis for children undergoing cardiac surgery: a single-center prospective observational study. *Pediatr Cardiol*. 2013 Aug;34(6):1404-8. doi: 10.1007/s00246-013-0662-z. Epub 2013 Feb 22. PMID: 23430323.

107: Di Nardo M, Ficarella A, Ricci Z, Luciano R, Stoppa F, Picardo S, Picca S, Muraca M, Cogo P. Impact of severe sepsis on serum and urinary biomarkers of acute kidney injury in critically ill children: an observational study. *Blood Purif*. 2013;35(1-3):172-6. doi: 10.1159/000346629. Epub 2013 Feb 15. PMID: 23428967.

108: Di Nardo M, Perrotta D, Gesualdo F, Chidini G, Calderini E, Pelosi P. Air-oxygen helmet-delivered continuous positive airway pressure to manage respiratory failure due to bronchiolitis. *Acta Paediatr.* 2012 Jul;101(7):e265-6; author reply e266. doi: 10.1111/j.1651-2227.2012.02654.x. Epub 2012 Apr 5. PMID: 22372663.

109: Di Nardo M, Cecchetti C, Stoppa F, Pirozzi N, Picardo S. Abdominal compartment syndrome in childhood: the role of near infrared spectroscopy for the early detection of the organ dysfunction. *Pediatr Surg Int.* 2012 Jan;28(1):111-2. doi: 10.1007/s00383-011-3021-2. Epub 2011 Nov 6. PMID: 22057621.

110: De Sanctis F, Di Nardo M, Inserra A, Ricci Z, Barbieri MA, Marano M, Picardo S. Perirenal hematoma in a 7 months old child four days after a cardiac operation. *Int J Cardiovasc Imaging.* 2012 Aug;28(6):1585-7. doi: 10.1007/s10554-011-9966-3. Epub 2011 Oct 19. PMID: 22009022.

111: Di Nardo M, Tomasello C, Pittiruti M, Perrotta D, Marano M, Cecchetti C, Pasotti E, Pirozzi N, Stoppa F. Ultrasound-guided central venous cannulation in infants weighing less than 5 kilograms. *J Vasc Access.* 2011 Oct-Dec;12(4):321-4. doi: 10.5301/JVA.2011.8309. PMID: 21553391.

112: Lubrano R, Cecchetti C, Elli M, Tomasello C, Guido G, Di Nardo M, Masciangelo R, Pasotti E, Barbieri MA, Bellelli E, Pirozzi N. Prognostic value of extravascular lung water index in critically ill children with acute respiratory failure. *Intensive Care Med.* 2011 Jan;37(1):124-31. doi: 10.1007/s00134-010-2047-6. Epub 2010 Sep 29. PMID: 20878387.

113: Di Nardo M, De Matteis GM, Cecchetti C, Pasotti E, Tomasello C, Marano M,

Perrotta D, Stoppa F, Pirozzi N. Echocardiographic evaluation and clinical management of ductal shunting in hemodynamically unstable preterm neonates without congenital heart disease in the pediatric intensive care unit. *Minerva Anestesiol.* 2010 Mar;76(3):209-14. PMID: 20203549.

114: Bizzarri F, Mattia C, Di Nardo M, Di Marzio E, Ricci M, Coluzzi F, Frati G, Pagliaro P, Muzzi L, Petrozza V. Antegrade selective cerebral perfusion in patients with "bovine aortic arch": is it easier? *J Cardiothorac Surg.* 2008 Nov 4;3:60. doi: 10.1186/1749-8090-3-60. PMID: 18983644; PMCID: PMC2586021.

115: Di Nardo M, Perrotta D, Stoppa F, Cecchetti C, Marano M, Pirozzi N. Independent lung ventilation in a newborn with asymmetric acute lung injury due to respiratory syncytial virus: a case report. *J Med Case Rep.* 2008 Jun 19;2:212. doi: 10.1186/1752-1947-2-212. PMID: 18565228; PMCID: PMC2440391.

116: Marano M, Stoppa F, Tomasello C, Pisani M, Di Nardo M, Pirozzi N. Case 1: Chocolate-coloured blood in infant with shock (case presentation). Diagnosis: Acquired methemoglobinemia. *Acta Paediatr.* 2008 Jul;97(7):836, 991-2. doi: 10.1111/j.1651-2227.2008.00777.x. PMID: 18532933.

117: Marano M, Iodice F, Stoppa F, Tomasello C, Perrotta D, Cecchetti C, Di Nardo M, Ciampalini P, Pirozzi N. Treatment of severe diabetic acidosis with tris-hydroxymethyl aminomethane in a thirteen-year-old child. *Minerva Anestesiol.* 2008 Mar;74(3):93-5. PMID: 18288072.

118: Montini L, Conti G, Pennisi MA, Di Nardo M, Antonelli M. Acute respiratory failure after a tiger mosquito bite: a case report. *Intensive Care Med.* 2003 Jun;29(6):1026-1027. doi: 10.1007/s00134-003-1743-x. Epub 2003 May 7. PMID: 12734648.