

Dr. Silvia Martini✉ silvia.martini9@unibo.it<http://www.unibo.it/sitoweb/silvia.martini9>**ACTUAL POSITION Junior assistant professor (fixed-term)**

12.05.2021 – TO DATE

Department of Medical and Surgical Sciences, University of Bologna, Italy
Academic discipline: MED/38 Paediatrics**Neonatal consultant (fixed-term)**

Neonatal Intensive Care Unit, IRCCS Policlinico di Sant'Orsola, Bologna, Italy

EDUCATION AND QUALIFICATION

19.05.2021

Doctor of Philosophy (PhD)

University of Bologna, Italy

- Title of the dissertation: "Exploration of cardiovascular and cerebral physiology in preterm infants during the transitional period with continuous haemodynamic monitoring".
- Supervisor: Prof. Luigi Corvaglia; co-supervisor: Prof. Topun Austin
- Final evaluation: excellent

12.09.2018 – 31.10.2020

Honorary Research Fellowship

Cambridge University Hospital, Cambridge (UK)

- Doctoral collaboration with the Brain Physics Laboratory, Department of Neuroscience, University of Cambridge, UK (Prof. Marek Czosnyka, Dott. Peter Smielewski) and with the neoLAB collaborative research group (Prof. Topun Austin).

08.08.2013 – 07.08.2018

Training in Pediatrics – Subspecialty: Neonatology

St. Orsola-Malpighi University Hospital, Department of Medical and Surgical Sciences, University of Bologna, Bologna – Italy

- Title of the dissertation: "Splanchnic oxygenation patterns in response to enteral feeding in preterm infants with normal or abnormal antenatal umbilical Doppler: correlation with gastrointestinal outcome".
- Final mark: 110 cum laude/110

27.10.2016 – 07.08.2017

Clinical Research Fellowship

The Rosie Hospital, Cambridge University, Cambridge – UK

neoLAB, The Evelyn Perinatal Imaging Centre, Rosie Hospital, Cambridge, UK

- Clinical activities: NICU, Delivery Room, Paediatric Cardiology Clinic, Neonatal Neurology Clinic
- Research activities: participation in the "FOTON" and "SPELL" study projects and other neoLAB research and teaching group's activities – Supervisor: Prof. T. Austin

16.02.2012

Medical license registration

University of Bologna, Italy

- Final mark: 270/270

10.10.2011

Doctor of Medicine (MD)

University of Bologna, Italy

- Title of the dissertation: "Cerebral and splanchnic oxygenation during enteral feeding in preterm infants: a comparison between bolus and continuous feeding".
- Final mark: 110 cum laude/110
- Qualified as the best graduate in Medicine at the University of Bologna for the A.Y. 2010/2011

05.07.2005

High School Diploma with emphasis on the Humanities

"T. Mamiani" Secondary School, Pesaro – Italy

- Final mark: 100/100

GRANTS

- 02.09.2021 **ESPR Post-Doc Research Grant 2021**
Funded by the European Society for Paediatric Research

HONOURS AND AWARDS

- 17.05.2021 **Merit Roll at "L'Oreal/UNESCO Award for Women in Science" – Italian 2021 edition**
Awarded by L'Oreal in collaboration with UNESCO
- 09.09.2019 **ESPR Young Investigator START-UP Award 2019**
Awarded by the European Society for Paediatric Research - Research Grant Committee
- 06.12.2014 **Honor Roll at "Francesco Schiassi" Award**
Trainees Category, awarded by the Medical and Surgical Society of Bologna, Bologna (Italy)
- 26.11.2012 **Award Prize "Fondazione Gaetano Salvioi"**
Awarded for the authorship of a review on innovative insights on pediatric tuberculosis, entitled "New diagnostic techniques for pediatric tuberculosis".
- 05.06.2012 **XII Rotary Award "Guido Paolucci"**
Awarded as best graduate in Medicine at the University of Bologna (A.Y. 2010/2011), Bologna (Italy)

TRAINING ACTIVITIES

- 07.10.2020 **Teaching course: "Techniques of non-invasive haemodynamic monitoring"**
Online course
▪ Sponsored by the Italian Society of Neonatology
- 10.09.2020 **Teaching course: "Bedside use of aEEG in the NICU"**
Online course
▪ Sponsored by the Italian Society of Neonatology
- 04-05.07.2019 **Teaching course: "Neonatal Neurology Assessment and Treatment Education"**
Wolfson College, Cambridge (UK)
▪ Organized by the British Paediatric Neurology Association
- 30.10.2018 **Teaching course: "Disease specific strategies of respiratory support"**
Palais Des Congrès de Paris, Paris (France)
▪ Sponsored by the European Board of Neonatology
- 29.10.2018 **Teaching course: "Neuromonitoring, neuroimaging and neuroprotective strategies in critically ill newborns"**
Palais Des Congrès de Paris, Paris (France)
▪ Sponsored by the European Board of Neonatology
- 02-03.07.2018 **Training course: "Lung ultrasound in the NICU and PICU"**
Division of Pediatrics and Neonatal Critical Care, South Paris University Hospital, Paris (France)
▪ Sponsored by ONSP (Osservatorio Nazionale Specializzandi in Pediatria)
- 14-15.12.2017 **Training course: "Advanced Cranial Ultrasound Course"**
Neonatal Intensive Care Unit, Karolinska University Hospital, Stockholm (Sweden)
▪ Sponsored by EurUS.brain – ESN (European Society for Neonatology) – ESPR (European Society for Pediatric Research)
- 27.09.2017 **Teaching course: "ECG interpretation"**
Ospedale Universitario di Torrette, Ancona - Italy
▪ Sponsored by the Italian National Observatory of Pediatric Trainees
- 25.09.2017 **Training course: "Difficult intubation, pneumothorax, intraosseous access: high-fidelity simulation"**
MiCo, Milano - Italy
▪ Sponsored by the Italian Society of Neonatology
- 02.05.2017 **Training course: "Neonatal Ventilation Course"**
Møller Centre, Cambridge – UK
▪ Organized by the Cambridge Perinatal Group
- 29.11.2016-30.11.2016 **Training course: "Paediatric and Neonatal Echocardiography"**
Møller Centre, Cambridge – UK
▪ Organized by the Cambridge Perinatal Group

- 21.10.2016 **Teaching Course: “Neonatal stabilisation”**
PalExpo, Geneva – Switzerland
- Sponsored by the European Board of Neonatology
- 20.10.2016 **Teaching Course: “Nutrition for the preterm infant”**
PalExpo, Geneva – Switzerland
- Sponsored by the European Board of Neonatology
- 06.10.2016 **Teaching Course: Paediatric Orthopaedics**
Policlinico Sant’Orsola-Malpighi, Bologna - Italy
- Sponsored by the Italian National Observatory of Pediatric Trainees
- 22.09.2016-23.09.2016 **Training course: “Neonatal Cranial Ultrasound”**
Addenbroke’s Hospital, Cambridge – UK
- Organized by the Cambridge Perinatal Group
- 12.04.2016 **Training course: “Esophageal impedance- pH monitoring in infants and newborns”**
Ospedale Sant’Anna, Torino - Italy
- Sponsored by the Italian Society of Neonatology
- 11.02.2016 – 12.02.2016 **Training course: “Pediatric Simulation Experience 2016”**
SIMNOVA Medical Simulation Centre, Piemonte Orientale University, Novara - Italy
- Focused on neonatal and pediatric resuscitation skills, with simulation training
- 10.12.2015 – 11.12.2015 **Teaching Course: “Enteral nutrition and neonatal gastroenterology”**
Royal Hotel Carlton, Bologna - Italy
- Sponsored by the Italian Society of Neonatology
- 25.11.2015 **Teaching Course: “Neonatal Neurology”**
Savoia Hotel, Bologna - Italy
- Sponsored by the Italian Society of Neonatology
- 22.10.2015 – 23.10.2015 **Training course: “Neonatal Resuscitation”**
Fondazione IRCCS - Policlinico San Matteo, Pavia - Italy
- Sponsored by the Italian Society of Neonatology
- 10.03.2015 **Training course: “European Paediatric Immediate Life Support”**
Meyer’s Children Hospital, Firenze - Italy
- Sponsored by the Italian Resuscitation Council
- 17.10.2014 **Teaching Course: “Neonatal Infections”**
CCIB, Barcelona - Spain
- Sponsored by the European Board of Neonatology
- 16.10.2014 **Teaching Course: “Neonatal Circulation”**
CCIB, Barcelona - Spain
- Sponsored by the European Board of Neonatology
- 19.06.2014 **Training Course: “Paediatric Basic Life Support”**
Meyer’s Children Hospital, Firenze - Italy
- Sponsored by the Italian Resuscitation Council
- 12.06.2014 **Teaching Course: “Nosocomial Infections”**
Complesso didattico Università di Palermo, Cittadella Universitaria, Palermo - Italy
- Sponsored by the Italian Society of Pediatrics
- 12.12.2012 – 13.12.2012 **Course: “Enteral nutrition and neonatal gastroenterology”**
Royal Hotel Carlton, Bologna - Italy
- Sponsored by the Italian Society of Neonatology
- 11.10.2011 – 07.08.2013 **Internship in the Neonatal Intensive Care Unit (Medical Trainee)**
Neonatal Intensive Care Unit, St. Orsola-Malpighi University Hospital, Bologna - Italy
- Active contribution to clinical and research activities in the field of Neonatal Gastroenterology and Nutrition
- 01.09.2010 – 10.10.2011 **Internship in Neonatology (Student)**
Department of Neonatology, St. Orsola-Malpighi University Hospital, Bologna - Italy
- Collaboration to a research project on regional oxygen assessment in preterm infants.

LANGUAGE SKILLS

Mother tongue Italian

Other languages

	English (IELTS Certification)			
	Listening	Reading	Speaking	Writing
English	C2	C2	C1	C2

SCIENTIFIC PUBLICATIONS

Papers published in international scientific journals with IF

1. **Martini S**, Savini S, Sansavini A, Corvaglia L. Discharge cerebral oxygenation and psychomotor outcome in very preterm infants: is there an association? *Eur J Pediatr*. 2022. doi: 10.1007/s00431-022-04578-6. Online ahead of print.
2. **Martini S**, Czosnyka M, Smielewski P, Iommi M, Galletti S, Vitali F, Paoletti V, Camela F, Austin T, Corvaglia L. Clinical determinants of cerebrovascular reactivity in very preterm infants during the transitional period. *Pediatr Res*. 2022;92(1):135-141.
3. **Martini S**, Vitali F, Capelli I, Donadei C, Raschi E, Aiello V, Corvaglia L, De Ponti F, Poluzzi E, Galletti S. Impact of nephrotoxic drugs on urinary biomarkers of renal function in very preterm infants. *Ped Res* 2021 *Pediatr Res*. 2022;91(7):1715-1722.
4. **Martini S**. ECI Highlights Biocommentary: Dr. Silvia Martini. *Pediatr Res* 2022;91(7):1635.
5. Indrio F, Neu J, Pettoello-Mantovani M, Marchese F, **Martini S**, Salatto A, Aceti A. Development of the Gastrointestinal Tract in Newborns as a Challenge for an Appropriate Nutrition: A Narrative Review. *Nutrients*. 2022;14(7):1405.
6. Levy PT, Pellicer A, Schwarz CE, Neunhoffer F, Schuhmann MU, Breindahl M, Fumagalli M, Mintzer J, de Boode W, Alarcon A, Alderliesten T, Austin T, Bruckner M, de Boode WP, Dempsey G, Ergenekon E, Fumagalli M, Greisen G, Gucuyener K, Hahn G.H, Kalish B.T, Kooi E, Lee-Summers J, Lemmers P, Liem KD, Hansen ML, **Martini S**, Naulaers G, Pichler G, Rhee C, Roehr CC, Roll C, Schwarz CE, da Costa CS, Szczapa T, Urlesberger B, Wolf M, Wong F. Near-infrared spectroscopy for perioperative assessment and neonatal interventions. *Ped Res* 2021 doi: 10.1038/s41390-021-01791-1 *Online ahead of print*.
7. **Martini S**, Castellini L, Parladori R, Paoletti V, Aceti A, Corvaglia L. Free radicals and neonatal brain injury: From underlying pathophysiology to antioxidant treatment perspectives. *Antioxidants* 2021;10(12): 2012.
8. **Martini S**, Paoletti V, Maffei M, Zucchelli M, Locatelli C, Fischer M, Fabbri VP, Foschini MP, Tallini G, Corvaglia L. Diagnostic challenges of an incidental finding: case report of definitely-congenital glioblastoma multiforme in a very preterm infant. *Italian Journal of Pediatrics* 2021;47(1):234.
9. Brennenstuhl H, Nashawi M, Schröter J, Baronio F, Beedgen L, Gleich F, Jeltsch K, von Landenberg C, **Martini S**, Simon A, Thiel C, Tsiakas K, Opladen T, Kölker S, Hoffmann GF, Haas D; Unified Registry for Inherited Metabolic Disorders (U-IMD) Consortium and the European Registry for Hereditary Metabolic Disorders (MetabERN). Phenotypic diversity, disease progression, and pathogenicity of MVK missense variants in mevalonic aciduria. *J Inherit Metab Dis*. 2021; 44 (5):1272 - 1287.
10. De Fazio L, Beghetti I, Bertuccio SN, Marsico C, **Martini S**, Masetti R, Pession A, Corvaglia L, Aceti A. Necrotizing Enterocolitis: Overview on In Vitro Models. *Int J Mol Sci* 2021;22(13):6761.
11. **Martini S**, Galletti S, Kelsall W, Angeli E, Agulli M, Gargiulo GD, Chen SE, Corvaglia L, Singh Y. Ductal ligation timing and neonatal outcomes: a 12-year bicentric comparison. *Eur J Pediatr*. 2021; 180(7):2261-2270. doi: 10.1007/s00431-021-04004-3
12. **Martini S**, Beghetti I, Annunziata M, Aceti A, Galletti S, Ragni L, Donti A, Corvaglia L. Enteral Nutrition in Term Infants with Congenital Heart Disease: Knowledge Gaps and Future Directions to Improve Clinical Practice. *Nutrients* 2021;13:932. doi: 10.3390/nu13030932
13. Beghetti I, Panizza D, Lenzi J, Gori D, **Martini S**, Corvaglia L, Aceti A. Probiotics for Preventing Necrotizing Enterocolitis in Preterm Infants: A Network Meta-Analysis. *Nutrients* 2021;13:E192. doi: 10.3390/nu13010192
14. Poerio A, Galletti S, Baldazzi M, **Martini S**, Rollo A, Spinedi S, Raimondi F, Zompatori M, Corvaglia L, Aceti A. Lung ultrasound features predict admission to the neonatal intensive care unit in infants with transient neonatal tachypnoea or respiratory distress syndrome born by caesarean section. *Eur J Pediatr*. 2020;180:869-876. doi: 10.1007/s00431-020-03789-z
15. **Martini S**, Toni F, Paoletti V, Corvaglia L, Cordelli DM. Neurovascular features of antenatal-onset Sturge-Weber syndrome without skin involvement. *Neurology*. 2020;95:e3070-e3071. doi: 10.1212/WNL.00000000000010759
16. **Martini S**, Frabboni G, Rucci P, Czosnyka M, Smielewski P, Galletti S, Cimatti AG, Faldella G, Corvaglia L, Austin T. Cardiovascular and cerebrovascular responses to cardio-respiratory events in preterm infants during the transitional period. *J Physiol*. 2020;598:4107-4119. doi: 10.1113/JP279730
17. Cimatti AG, **Martini S**, Galletti S, Vitali F, Aceti A, Frabboni G, Faldella G, Corvaglia L. Cerebral oxygenation and autoregulation in very preterm infants developing IVH during the transitional period: a pilot study. *Front Pediatr*. 2020;8:381. doi: 10.3389/fped.2020.00381
18. **Martini S**, Frabboni G, Rucci P, Czosnyka M, Smielewski P, Galletti S, Vitali F, Faldella G, Austin T, Corvaglia L. Cardiorespiratory Events in Infants Born Preterm during the Transitional Period. *J Pediatr*. 2020 Jun;221:32-38.e2. doi: 10.1016/j.jpeds.2020.02.037
19. **Martini S**, Spada C, Aceti A, Rucci P, Gibertoni D, Battistini B, Arcuri S, Faldella G, Corvaglia L. Red blood cell transfusions alter splanchnic oxygenation response to enteral feeding in preterm infants: an observational pilot study. *Transfusion*. 2020;60:1669-1675. doi: 10.1111/trf.15821
20. Capelli I, Vitali F, Zappulo F, **Martini S**, Donadei C, Cappuccilli M, Leonardini L, Girardi A, Aiello V, Galletti S, Faldella G, Poluzzi E, De Ponti F, La Manna G. Biomarkers of Kidney Injury in Very-low-birth-weight Preterm Infants: Influence of Maternal and Neonatal Factors. *In Vivo*. 2020;34:1333-1339

21. **Martini S**, Aceti A, Galletti S, Beghetti I, Faldella G, Corvaglia L. To Feed or Not to Feed: A Critical Overview of Enteral Feeding Management and Gastrointestinal Complications in Preterm Neonates with a Patent Ductus Arteriosus. *Nutrients*. 2020;12:1-15.
22. **Martini S**, Austin T, Aceti A, Faldella G, Corvaglia L. Free radicals and neonatal encephalopathy: mechanisms of injury, biomarkers, and antioxidant treatment perspectives. *Pediatr Res*. 2020;87:823-833
23. Aceti A, Cavallarin L, **Martini S**, Giribaldi M, Vitali F, Ambretti S, Zambrini V, Corvaglia L. Effect of Alternative Pasteurization Techniques On Human Milk's Bioactive Proteins. *J Pediatr Gastroenterol Nutr*. 2020;70:508-512 2019. doi: 10.1097/MPG.0000000000002598.
24. Beghetti I, Biagi E, **Martini S**, Brigidi P, Corvaglia L, Aceti A. Human Milk's Hidden Gift: Implications of the Milk Microbiome for Preterm Infants' Health. *Nutrients*. 2019;11(12). pii: E2944. doi: 10.3390/nu11122944.
25. **Martini S**, Paoletti V, Faldella G, Corvaglia L. Cerebral oxygenation patterns during electro-clinical neonatal seizures. *Neuropediatrics*. 2019 Dec;50(6):408-409
26. **Martini S**, Corvaglia L, Aceti A, Vitali F, Faldella G, Galletti S. Effect of Patent Ductus Arteriosus on Splanchnic Oxygenation at Enteral Feeding Introduction in Very Preterm Infants. *J Pediatr Gastroenterol Nutr*. 2019;69(4):493-497.
27. **Martini S**, Aceti A, Furini M, Munarini A, LaRiccica C, Mantovani V, Faldella G, Corvaglia L. Effect of different tube feeding methods on the delivery of docosahexaenoic and arachidonic acid: an in vitro pilot study. *J Parenter Enteral Nutr*. 2019;43(4):550-556
28. Mariani E, Biasini A, Marvulli L, **Martini S**, Aceti A, Faldella G, Corvaglia L, Sansavini A, Savini S, Agostini F, Stella M, Neri E. Strategies of Increased Protein Intake in ELBW Infants Fed by Human Milk Lead to Long Term Benefits. *Front Public Health* 2018;6:272.
29. Cimatti AG, **Martini S**, Munarini A, Zioutas M, Vitali F, Aceti A, Mantovani V, Faldella G, Corvaglia L. Maternal Supplementation With Krill Oil During Breastfeeding and Long-Chain Polyunsaturated Fatty Acids (LCPUFAs) Composition of Human Milk: A Feasibility Study. *Front Pediatr*. 2018;6:407
30. Aceti A, Beghetti I, Maggio L, **Martini S**, Faldella G, Corvaglia L. Filling the Gaps: Current Research Directions for a Rational Use of Probiotics in Preterm Infants. *Nutrients* 2018;10(10). pii: E1472.
31. **Martini S**, Alessandrini R, Arcuri S, Faldella G. Vancomycin-induced red man syndrome presentation in a preterm infant. *Pediatric Dermatology* 2018;35(6):e408-e409
32. **Martini S**, Aceti A, Beghetti I, Faldella G, Corvaglia L. Feed-related Splanchnic Oxygenation in Preterm Infants With Abnormal Antenatal Doppler Developing Gut Complications. *J Pediatr Gastroenterol Nutr*. 2018;66:755-759
33. **Martini S**, Corvaglia L. Splanchnic NIRS monitoring in neonatal care: rationale, current applications and future perspectives. *J Perinatol*. 2018;38(5):431-443
34. **Martini S**, Rizzello A, Corsini I, Romanin B, Fiorentino M, Grandi S, Bergamaschi R. Vitamin A Deficiency Due to Selective Eating as a Cause of Blindness in a High-Income Setting. *Pediatrics*. 2018;141:S439-S444
35. Aceti A, Beghetti I, **Martini S**, Faldella G, Corvaglia L. NEC Oxidative Stress and Necrotizing Enterocolitis: Pathogenetic Mechanisms, Opportunities for Intervention, and Role of Human Milk. *Oxid Med Cell Longev*. 2018;2018:7397659.
36. Corvaglia L, **Martini S**, Battistini B, Rucci P, Faldella G, Aceti A. Splanchnic Oxygenation at First Enteral Feeding in Preterm Infants: Correlation with Feeding Intolerance. *J Pediatr Gastroenterol Nutr*. 2017;64(4):550-554
37. Indrio F, **Martini S**, Francavilla R, Corvaglia L, Cristofori F, Mastrolia SA, Neu J, Rautava S, Russo Spina G, Raimondi F, Loverro G. Epigenetic Matters: The Link between Early Nutrition, Microbiome, and Long-term Health Development. *Front Pediatr*. 2017;5:178
38. Indrio F, Riezzo G, Giordano P, Ficarella M, Miolla MP, **Martini S**, Corvaglia L, Francavilla R. Effect of a Partially Hydrolysed Whey Infant Formula Supplemented with Starch and *Lactobacillus reuteri* DSM 17938 on Regurgitation and Gastric Motility. *Nutrients*. 2017;9(11). pii: E1181.
39. **Martini S**, Aceti A, Lima M, Maffi M, Faldella G, Corvaglia L. Octreotide in a Critically Ill Extremely Preterm Infant With Perforated Necrotizing Enterocolitis. *Pediatrics*. 2016;138(2). pii: e20160467.
40. Zucchelli M, Lefosse M, Corvaglia L, **Martini S**, Sandri F, Soffritti S, Ancora G, Mammoliti P, Gargano G, Galassi E. Introduction of percutaneous-tunneled transfontanelar external ventricular drainage in the management of hydrocephalus in extremely low birth weight infants. *J Neurosurg Pediatr*. 2016;18(1):1-6.
41. Corvaglia L, **Martini S**, Corrado MF, Mariani E, Legnani E, Bosi I, Faldella G, Aceti A. Does the Use of Pacifier Affect Gastro-Esophageal Reflux in Preterm Infants? *J Pediatr*. 2016;172:205-8.
42. Corvaglia L, Tonti G, **Martini S**, Aceti A, Mazzola G, Aloisio I, Di Gioia D, Faldella G. Influence of Intrapartum Antibiotic Prophylaxis for Group B Streptococcus on Gut Microbiota in the First Month of Life. *J Pediatr Gastroenterol Nutr*. 2016;62(2):304-8.
43. Corvaglia L, **Martini S**. Feeding difficulties during the neonatal period. *Italian Journal of Pediatrics* 2015, 41(S2):A21.
44. **Martini S**, Tumietto F, Sciutti R, Greco L, Faldella G, Corvaglia L. Methicillin-resistant *Staphylococcus aureus* mandibular osteomyelitis in an extremely low birth weight preterm infant. *Ital J Pediatr*. 2015;4:41:54.
45. Corvaglia L, **Martini S**, Aceti A, Capretti MG, Galletti S, Faldella G. Cardiorespiratory events with bolus versus continuous enteral feeding in healthy preterm infants. *J Pediatr*. 2014;165(6):1255-7.

46. Corvaglia L, **Martini S**, Battistini B, Rucci P, Aceti A, Faldella G. Bolus vs. continuous feeding: effects on splanchnic and cerebral tissue oxygenation in healthy preterm infants. *Pediatr Res.* 2014;76(1):81-5. doi: 10.1038/pr.2014.52
47. Corvaglia L, **Martini S**, Faldella G. Gastro-oesophageal reflux: pathogenesis, symptoms, diagnostic and therapeutic management. *Early Human Development* 2013; 89(S4):S18-S19
48. Corvaglia L, **Martini S**, Aceti A, Arcuri S, Rossini R, Faldella G. Nonpharmacological management of gastroesophageal reflux in preterm infants. *Biomed Res Int.* 2013;2013:141967.
49. Corvaglia L, Monari C, **Martini S**, Aceti A, Faldella G. Pharmacological therapy of gastroesophageal reflux in preterm infants. *Gastroenterol Res Pract* 2013;2013:714564.
50. Corvaglia L, Spizzichino M, Aceti A, Legnani E, Mariani E, **Martini S**, Battistini B, Faldella G. A thickened formula does not reduce apneas related to gastroesophageal reflux in preterm infants. *Neonatology.* 2013;103(2):98-102

Papers published in indexed scientific journals

1. Tenggattini V, La Placa M, Neri I, **Martini S**, Patrizi A. A suspicious dark lesion in a boy. *Clin Case Rep.* 2019;00:1–2.
2. Corvaglia L, **Martini S**. Near Infrared Spectroscopy and gut function in preterm newborns. *Journal of Pediatric and Neonatal Individualized Medicine* 2017;6(2):25-26
3. Faldella G, **Martini S**. Pediatricians prescribing formulas for infants: scientific, legislative and ethical issues. *Journal of Pediatric and Neonatal Individualized Medicine* 2016;5(2):49.
4. **Martini S**. Nuove metodiche diagnostiche nella tubercolosi pediatrica. *Area Pediatrica* 2013;14(1-2):31-39.
5. Corvaglia L, **Martini S**, Faldella G. Breastfeeding the preterm infant. *Journal of Pediatric and Neonatal Individualized Medicine* 2013;2(2):e020209.

Book chapters

1. **Martini S**, Parladori R, Corvaglia L (2022). Biomarkers of Oxidative Stress in Neonatal Hypoxic-Ischemic Encephalopathy. In: Rajendram, R., Preedy, V.R., Patel, V.B. (eds) *Biomarkers in Trauma, Injury and Critical Care. Biomarkers in Disease: Methods, Discoveries and Applications*. Springer, Cham. Doi: 10.1007/978-3-030-87302-8_12-1
2. Corvaglia L, **Martini S**, Faldella G (2014). Thickening of infant formula. Chapter n. 20 in “Handbook of dietary and nutritional aspects of bottle feeding”, edited by Victor R. Preedy, Ronald Ross Watson and Sherma Zibadi, 8th Edition, Human health handbooks – ISSN:2212-375X.
3. Faldella G, **Martini S** (2014). Neonatologia. Chapter n.1. in “Pediatría generale e specialistica” by F. Zappulla, 12° edition, 620 pages. Edited by Società Editrice Eusculapio – doi: 10.15651/978-88-748-8819-1
4. Corvaglia L, Legnani E, **Martini S**, Oss M. L'importanza dello sviluppo del microbiota intestinale nell'infanzia. Part III, chapter n. 13 in “Alimentazione, salute e stili di vita”, Associazione Italiana Malattie Apparato Digerente (AIMAD). Edited by Biavati & Santini, 436 pages. AIMAD – ISBN:978-88-940615-0-5

Abstracts

Co-author of more than 70 abstracts, accepted as poster or oral presentations at national and international conferences.

ADDITIONAL INFORMATION

Conferences

Speaker at the following conferences/seminars:

- “Clinical determinants of cerebrovascular reactivity in preterm infants during the transitional period”. Regular Seminar of the Brain Physics Laboratory, Department of Neuroscience, Cambridge University Hospital, Cambridge (UK), 20.04.2021
- “Cardiovascular and cerebrovascular patterns in preterm infants during transition”. Regular Seminar of the Brain Physics Laboratory, Department of Neuroscience, Cambridge University Hospital, Cambridge (UK), 02.07.2019
- “Non-invasive brain and cardiac hemodynamic monitoring during first 72 hours of life in premature newborns”, Regular Seminar of the Brain Physics Laboratory, Department of Neuroscience, Cambridge University Hospital, Cambridge (UK), 15.01.2019
- XIII Congress of the Italian Observatory of Paediatric Trainees, with the report “A late-onset dyspnea”. Bologna (Italy), Convento S. Domenico, 5-8.10.2016.
- “Casi clinici in Neonatologia” with the report “Complications of central venous accesses” – Italian Society for Neonatology – Emilia Romagna Section. Bertinoro (Italy), Centro Residenziale Universitario, 5-6.10.2013.

Presenting author of the following oral communications:

- 8th Congress of the European Academy of Paediatric Societies (EAPS 2020, virtual conference), 16-19.10.2020. Oral Communication: “Correlation between cerebral oxygenation and cardiac output in very preterm infants during the transitional period”.
- 8th Congress of the European Academy of Paediatric Societies (EAPS 2020, virtual conference), 16-19.10.2020. Oral Communication: “Postnatal dexamethasone and brain abnormalities in extremely preterm infants at term-equivalent age: is there a link?”.

- 3rd Congress of joint European Neonatal Societies (jENS 2019. Maastricht (Netherlands), 17-21.09.2019. Oral communication: *"Preterm infants' cardiovascular response to cardio-respiratory events during transitional period"*.
- UK Neonatal Society, 2019 Summer Meeting. Cambridge (UK), 27-28.06.2019. Oral Communication: *"Cerebrovascular and cardiovascular responses to cardio-respiratory events in preterm infants during the transitional period"*.
- 2019 Royal College of Paediatrics and Child Health (RCPCH) Conference. Birmingham (UK), 13-15.05.2019. Oral Communication: *"Timing of PDA ligation and impact on neonatal clinical outcomes: an international comparison"*.
- XXIV National Congress of the Italian Neonatal Society. Roma (Italy), 28.09.2018. Oral Communication: *"Timing of patent ductus arteriosus ligation: impact on neonatal clinical outcomes"*.
- 2nd Congress of joint European Neonatal Societies (jENS 2017). Venice (Italy), 01-04.11.2017. Oral communication: *"Early neonatal EEG markers for dyslexia risk: a pilot study"*.
- XXII National Congress of the Italian Society of Neonatology. Napoli (Italy), 14.10.2016. Oral Communication: *"Early cerebral oxygenation as a predictor of psychomotor outcome in preterm infants"*.
- 5th Congress of the European Academy of Paediatric Societies (EAPS). Barcelona (Spain), 17-21.10.2014. Oral Communication: *"Development of gut microbiota: effect of intrapartum antibiotic prophylaxis in breastfed term newborns"*.
- 54th Annual Meeting of the European Society for Paediatric Research (ESPR). Porto (Portugal), 10-14.10.2013. Oral Communication: *"Bolus vs. continuous feeding: effect on breathing patterns and cardiorespiratory events"*.
- XIX National SIGENP Congress. Parma (Italy), 11-13.10.2012. Oral Communication: *"Splanchnic and cerebral tissue oxigenation: effects of bolus and continuous enteral feeding evaluated by Near Infrared Spectroscopy in preterm infants"*.
- 4th Congress of the European Academy of Paediatric Societies (EAPS). Istanbul (Turkey), 5-9.10.2012. Oral Communication: *"Effects of bolus and continuous enteral feeding on splanchnic and cerebral tissue oxygenation evaluated by Near Infrared Spectroscopy"*.

Memberships

Member of the following scientific societies and research / special interest groups:

- European Society for Paediatric Research (ESPR)
 - ESPR Section "Circulation, Oxygen Transport & Haematology"
 - Italian Society of Pediatrics (SIP)
 - Italian Society of Neonatology (SIN)
- SIN Collaborative research group on Neonatal Cardiology and Neonatal Neurology

Editorial activities

Associate Editor for Plos One, Frontiers in Pediatrics, BMC Pediatrics

Review Editor for Frontiers In Pediatrics and Frontiers in Neurology

Reviewer for the following indexed journals: Pediatrics, Archives of Disease in Childhood (ADC), The Journal of Pediatrics, Pediatric Research, Journal of Pediatric Gastroenterology and Nutrition (JPGN), Pediatric Infectious Diseases Journal (PIDJ), Journal of Maternal-Fetal & Neonatal Medicine (JMFNM), Italian Journal of Pediatrics (IJP), European Journal of Pediatrics (EJP), American Journal of Perinatology, Folia microbiologica, BMC Public Health, BMC Pediatrics, Scientific Reports, Acta Paediatrica

Certifications

- Diploma of Proficiency in Neonatal Cerebral Ultrasound (European Society for Neonatology) - December 2017).
- Neonatal Resuscitation (Italian Neonatal Society) – October 2015, December 2017
- Newborn Life Support Certification (UK Resuscitation Council) – June 2017
- Good Clinical Practice Certification (Cambridge University Hospital) – February 2017
- Pediatric Basic Life Support Certification (Italian Society of Pediatric Emergency) – September 2016
- European Pediatric Immediate Life Support (Italian Resuscitation Council) - March 2015

Bologna, September 20th, 2022

Silvia Martini