Personal information

FABIO MOSCA

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Sex M | Date of birth: 5th August 1955| Nationality Italy

Professional experience

15.12.2021-on going	President of the Italian Society of Pediatric Nutrition
28.09.2018- 7.11.2021	President of the Italian Society of Neonatology
03.12.2015-09.30.2020	Director Paediatric Residency, University of Milan
01.06.2013-ongoing	Director of the Neonatal-Pediatric area, Fondazione IRCCS Ospedale Maggiore Policlinico, Milan
10.1.2011-ongoing	Full Professor in Pediatrics, University of Milan
2005-ongoing	Director of the Neonatology and Neonatal Intensive Care Unit- Fondazione IRCCS Ospedale Maggiore Policlinico, Milan,
21.12.2005-2012	Vice-Director of the Maternal-Infant Department, University of Milan Co-director of the Women-Infants and Children Department of Fondazione IRCCS Ospedale Maggiore Policlinico, Mangiagalli and Regina Elena
1.3.2005- 30.09.2011	Associate Professor in Pediatrics, University of Milan
1990-1998	Senior consultant , Division of Neonatology and Neonatal Pathology Istituti Clinici di Perfezionamento di Milano (Clinica Mangiagalli)
1987 -1989	Consultant Neonatologist, Division of Neonatology and Pathology Neonatal, Istituti Clinici di Perfezionamento di Milano (Clinica Mangiagalli)

1985- 1986	Consultant Neonatologist, Division of Neonatology and Pathology Ospedale Bolognini , Seriate (BG)
1981- 1986	Head of the Neonatology Service, Policlinico San Marco, Zingonia (BG)

Education and training

1980	Degree in Medicine, University of Milan Experimental study on "In vitro study of xylose uptake in intestinal mucosa of rats"
1983	Board Certificate in Pediatrics In Pediatrics, University of Milan Experimental study on "Evaluation of the absorption of carbohydrates in preterm and term infants. Study in vivo and in vitro"
1984	Board Certificate in Neonatology, University of Milan
1990	Board Certificate in Pediatric Surgery, University of Milan Experimental study on "Adenoma cystic lung : diagnosis and treatment")
1993	Research Fellow Utah Valley Regional Medical Center (Utah , USA)
1994	Research Fellow Division of Neonatology, Department of Pediatrics, University of Cincinnati (Ohio - USA)
1995	Research Fellow Department of Paediatrics and Neonatal Medicine Hammersmith Hospital in London

Mother tongue ITALIAN

Other languages	Comprehension		Speech		Written production
	Listening	Reading	Interaction	Oral production	
English	excellent	excellent	excellent	excellent	excellent

SCIENTIFIC SOCIETIES

Member of the Italian Society of Pediatrics
President of the Italian Neonatal Society
Past President Regional (Lombardia) Italian Neonatology Society
Member of the Italian Society for Pediatric Research
Member of the European Society for Pediatric Research
Member of the scientific board of the Italian Neonatal Network

TEACHING ACTIVITIES

2005-ongoing	Lecturers in Pediatrics, Faculty of Medicine and Surgery, University of Milan,
1985-1986	Lectures in " Neonatal Pathology", School for Nurses-Ospedale Bolognini" di Seriate (BG)
1991-2004	Lecturers in " Neonatal Pathology and Puericulture", Obstetrics School-University of Milan
1989-2004	Lecturers in Pediatrics, Specialization School in Paediatrics, University of Milan

COMPETITIVE FUNDING AND GRANTS (AS COORDINATOR)

2016 Ricerca Finalizzata-Ministero della Salute: The potential of fermented functional food-based immunonutritional strategy against neonatal Sepsis.

RESEARCH ACTIVITY

The original research activities included different branches of Neonatology
Nutrition:
1.Breath test as an instrument to evaluate the carbohydrate absorption in full term and preterm newborn
2. Nutrients requirements in preterm infants
3.Nutritional evaluation of the hypo-antigenic diet in order to prevent the allergic symptoms
4.Oligosaccharidies effects on the faecal bacterial flora in full term infants.
5. Effects of music therapy in very low birth weight infants
6) Factors associated with recovery of growth in extremely low birth weight infants.
7) 6) Assessment of body composition by means of a new air displacement system (PEA POD® Infant Body Composition System, LMI, Concord, CA)
8) Assessment of bone status in preterm infants by means of speed of sound (SOS), measured by quantitative ultrasound

Respiratory/Pneumology:
1.Contribution to the pulmonary driving in normal and pathologic conditions
2. Studies about the surfactant and drug induced changes on the respiratory function in preterm infants with RDS
3.Pre- and post-surgical evaluation in newborn with congenital thoracic/pulmonary malformations and indications for a correct surgery timing in these conditions.
4.Advantage and disadvantage of the new ventilatory techniques, particularly the High frequency oscillatory ventilation.
5.New pharmacological therapy for the persistent pulmonary hypertension (administration of inhaling nitrogen oxide).
Cerebral circulation:
1.Non-invasive technique (NIRS) to evaluate the cerebral circulation and the influence of the common nursing management on the cerebral circulation
2.Cardiac/pulmonary drug influence on the cerebral hemodynamic and oxygenation in different pathological neonatal conditions.
3.Study and use of imaging technique in fetuses and newborns

Cardiovascular pathology:
1.Cardiac ultrasound evaluation of the patent ductus haemodynamic significativity and his influence on different body systems.
2.Therapy for ductus arteriosus closure.
3.Cardiovascular function in newborn with foetus-foetal transfusion syndrome
4.Cardiac ventricular function in full term and preterm infants.
5.Oxygenation Index in critical conditions newborn.

Infections
1)Breast feeding CMV transmission in preterm infant
2)Vaccine efficacy in preterm and full term newborns

Dismorphology
1)Chromosomal reassessment in a family with history of mental retardation and repeated foetal deaths.
2) Study of mutations in hypoventilation syndrome.
3) Clinical and genetical study of severity of mutations in glycogen storage disease type IV.

RESEARCH ACTIVITY

♣ Collaboration with the Imagine Science Department (Department of Pediatrics) at Imperial College at the Hammersmith Hospital in London (UK), with the project 'Study of the brain and neurological maturation of preterm infants with the new techniques of Nuclear Magnetic Resonance, especially considering the development visual pathways with more sophisticated technique Diffusion tensor tractography associated Immaging and at the same time compared with the clinical evaluation of the development of visual functions and neuromotor stages' – 2007

♣ Collaboration with the Nutrition Center at Baylor College, Houston, Texas (USA), in the research "Evaluation of body composition using stable isotopes in large premature"

♣ Collaboration with Dr. Bernard Thébaud at the University of Alberta, Edmonton (Canada), for the clinical and research activities on the study "perivascular stem cells from human umbilical cord as a potential treatment for bronchial pulmonary dysplasia: development of an animal model" – ongoing

♣ Collaboration with the Vermont Oxford Network - USA, for the collection of indicators Outcome of infants weighing less than 1500 g.

♣ Cooperation with Anton van Kaam and Peter Rimensberger (Holland) -European Survey on Neonatal Mechanical Ventilation

♣ Collaboration Murdoch Children's Research Institute, Melbourne, Australia in relation to a research project concerning the study of alternative modes of administration of surfactant in respiratory distress of preterm

♣ Collaboration with the Medical Center, Department of Pediatrics, Division of Neonatal and Perinatal Medicine, South Western University, Dallas, Texas, USA in relation to a research project concerning the neonatal infectious diseases

♣ Collaboration with the Department of Neonatology, Righospitalet, Copenhagen, Denmark, in respect of a research project concerning the study anatomofunzionale brain development in preterm infants

♣ Collaboration with the Institute de Investigacion Sanitaria La Fe, Valencia, Spain in relation to a research project concerning the administration of oxygen in the delivery room.

04.02. 2022

Prof. Fabio Mosca