

## CURRICULUM VITAE

LUCA A RAMENGHI

Born at Modena Italy 3<sup>rd</sup>-June-1961



From the most recent

From February 2024

Chief of “Mother and baby” Department  
(Neonatal Unit, Obstetric Unit, Prenatal  
Diagnosis Unit and Paediatric and Neonatal Units  
Of

From 2020- ongoing

Professor of Paediatrics (Professor Staordinario)-  
University of Genoa

From 1/7/2017- ongoing

Chief of “Mother and baby” Department  
(Neonatal Unit, Obstetric Unit, Prenatal  
Diagnosis)

Form June 2024 – ongoing

Chief of Gaslini Diffuso Department (with  
Neonatal and Paediatric Units of San Remo,  
Imperia, Savona, Lavagna, La Spezia)

From 1/9/2011

Giannina Gaslini Children’s Hospital, IRCCS  
Genoa, Italy

Occupation or position held

Medical Director of Neonatal Intensive Care at  
Gaslini Children’s Hospital

Name and address of employer

Giannina Gaslini Children’s Hospital, Genoa, Italy

From September 2015 to February 2016

Occupation or position held

“Scientific Director” at Gaslini Children’s  
Hospital

Name and address of employer

Giannina Gaslini Children’s Hospital, Genoa, Italy

From 1/12/2000 – to 31/8/2011

Consultant Neonatologist – IRCCS Mangiagalli  
Hospital Milan IRCCS

Occupation or position held

Consultant Neonatologist at the Department of  
Neonatology and Neonatal Intensive Care

2009

Doctor Philosophy – University of Leeds  
“Novel method to treat pain in neonates”

From 1994 to 2000

Research fellow and Lecturer in Paediatrics –  
University of Leeds

Main activities and responsibilities

Name and address of employer

( 2003 ) Clinical Excellence in Neonatal  
Neurology.  
Hospital Mangiagalli – IRCCS Milan, Italy

From 30/7/1999 – to 30/11/2000

Occupation or position held

Consultant Neonatologist at the Department of Neonatology and Neonatal Intensive Care  
Bergamo Hospital - Hospital Papa Giovanni XXIII  
– Bergamo, Italy

Name and address of employer

From 1/7/1994 – al 30/8/1999

Senior Registrar and Lecturer in Paediatrics Leeds  
General Infirmary at Leeds – University of Leeds  
– UK

University Assistant – (Tecnico Laureato VIII livello) – in Paediatrics – University of Chieti - Italy

He organizes national and international conferences and he is often invited as a speaker.

He produced papers in international journals (250 articles in international journals on PubMed and citation index ) He has index scores of 55 Hirsch index Google Scholar and 46 on Scopus. He published as first author a series of chapters in international books in the field of neonatal neurology.

He is Co-Thesis of Medicine and of "short degree courses" (Obstetrics) - he is teacher of Neonatal Diseases and Childcare - He is the publisher and editor of National and International books - is the author of many chapters of national and international books - has won several research Grant (the most recent PreventROP, funded by the European Union, FP7), which has had for five years from December 2012 on medication against retinopathy of premature infants with funding amounting to EUR 427.000.

The field of interest has been, since my initial training in neonatology, neonatal brain imaging. I was introduced to the use of brain ultrasound among the first ones in Italy during 1987-88 spending one year time at Pavia university where there was a fellow (Sandra Ometto) who learned this technique at Port Royal with madame Couchard together with brain anatomy of premature babies with Claudine Larroche, an outstanding pathologist who discovered many neonatal brain diseases (PVL, 1962 Archives of Neurology, Vein anatomy predisposing to develop germinal matrix-intraventricular haemorrhage 1964, we recently confirmed with a publication). Since that time across the 80ies and early 90ies we developed the first course in the country in cerebral Ultrasound for neonatologists with a Joined University Course between Universities of Chieti (where I originally graduated and trained in Pediatrics) and Pavia. I started at that time to use brain imaging also for scientific publications, on national and international journal. My first wish was to further develop skill and knowledge in that field remaining a full time neonatologist of intensive care medicine. The next significative step of my career has been at Leeds University, for a research fellow job of two years and further years as lecturer in Paediatrics at University of Leeds, UK. During that time we experimented the first applications of brain imaging by using MR to study brain morphology in order to study processes of maturation of the brain of premature babies and comparing it with brain ultrasound findings. In addition, I invested in a connected neurological research as we investigated mechanisms regulating nociception and how to reduce effects of pain experiences, showing the calming effects of administering intraoral sucrose and starting a PhD project on this subject at Leeds University, later obtained. More recently (at Genoa University) we managed to understand better how these experiences can modify brain connectivity of premature babies, related to the amount of pain experiences. Coming back to my country (year 2000) we have been the first one when in Bergamo (where I worked for one year only) to offer Brain MRI in very low birth weight babies when reaching corrected age in order to evaluate missing brain lesions at US and to develop this technique as a sort of first follow-up. We further and better developed these skills when in Milan at Mangiagalli Intensive care Unit, one the largest NICU of the country where I was appointed as a Consultant Neonatologist. The hospital in Milan is called **IRCCS** that something more than an academic hospital strictly meaning **Istituto di Ricovero e Cura a Carattere Scientifico**, in other words an academic hospital with very high standards of achievements mainly in research activities. At that time a solid collaboration was developed with Hammersmith Hospital in London, with David Edwards NICU and brain imaging center for the developing brain with Mary Rutherford and Serena Counsell, whose school I participated for several years as a teacher. I personally spent quite few time as a visiting doctor in London from 2006 to 2011 to build common research and I was directly involved to analyse brain MRI of TOBY study (Rutherford, Ramenghi et al Lancet Neurology) in order to assess the effect of cooling and therefore corroborating clinical results of the study. In the meanwhile in Milan we invested in brain research studies expanding the concept from pure imaging research, to genetics and minor brain lesions affecting brain maturation (Ramenghi –Neuroradiology stroke), in addition I was author of many chapters of book on the use on neonatal

neuroimaging for clinician neonatologists and also in Neonatal Textbook. With the following job duties having achieved the directorship of the NICU in the “Gaslini” Children’s Hospital, a national pediatric **IRCCS** Hospital I was appointed since September 2011. In the meanwhile we firstly obtained an important FP7 European International Grant to develop an International Study to treat premature babies with IGF1 lacking in the babies born prematurely. Since that time the scientific production has been progressively increased and made, I believe, more variegated and robust with different papers and different PhD students attending our center. At the same time I become more aware of the importance of the perinatal medicine in order to obtain and understand faster many improvements in the neonatal fields. Member of European Neonatal Brain Club, an exclusive club gathering 40-50 researcher in the field of Neonatal Neurology. He has been member of differently International Society, currently He is the Treasure of the European Association of Perinatal Medicine.

Yours Sincerely

A handwritten signature in black ink, appearing to read 'L. Ramenghi', with a stylized flourish at the end.

Professor Luca Ramenghi