

Supplementary Material for ‘Reducing early-life smoke exposure as a preventive strategy for pediatric multiple sclerosis: results from the PEDIGREE Study’

Authors

Silvy Pilotto¹, Angelo Ghezzi², Stefania Maria Bova³, Marzia Fronza⁴, Pietro Annovazzi⁵, Marta Simone⁶, Antonio Gallo⁷, Agnese Suppiej⁸, Roberta Lanzillo⁹, Sarah Rasia¹⁰, Angela Berardinelli¹¹, Valentina Torri Clerici¹², Lucia Moiola¹³, Maurizio Viri¹⁴, Stefano Sotgiu¹⁵, Simona Malucchi¹⁶, Alessandra Protti¹⁷, Carlotta Canavese¹⁸, Giacomo Lus¹⁹, Luigi Grimaldi²⁰, Marta Zaffira Conti²¹, Giovanna Borriello²², Giovanna De Luca²³, Valentina Tomassini^{23,24,25,26}, Alberto Priori²⁷, Martina Tosi², Nicola Pomella², Andrea Corona²⁷, Alen Zollo²⁷, Maria Pia Amato^{28,29}, Eleonora Cocco⁴, Maria Trojano³⁰, Filippo Martinelli-Boneschi^{27,31}, Sandra D’Alfonso², Roberto Bergamaschi³², Maura Pugliatti¹ and the PEDIGREE Study Group.

Affiliations

1 Department of Neuroscience and Rehabilitation, University of Ferrara, Ferrara, Italy

2 Department of Health Sciences, University of Eastern Piedmont, Novara, Italy

3 Child Neurology Unit, Buzzi Children Hospital, Milan, Italy

4 Department of Medical Sciences and Public Health, University of Cagliari, Cagliari, Italy

5 Neuroimmunology Unit-Multiple Sclerosis Center, Hospital of Gallarate, ASST della Valle Olona, Gallarate, Italy

6 Child Neuropsychiatric Unit, Department of Precision and Regenerative Medicine and Ionic Area, University 'Aldo Moro' of Bari, Bari, Italy

7 Department of Advanced Medical and Surgical Sciences, and 3T MRI-Center, University of Campania 'Luigi Vanvitelli', Naples, Italy

8 Pediatric Clinic, University of Ferrara, Ferrara, Italy.

9 Department of Neuroscience, Reproductive Sciences and Dentistry, School of Medicine, University of Naples Federico II, Naples, Italy

10 Multiple Sclerosis Center, ASST - Spedali Civili of Brescia, Brescia, Montichiari, Italy

11 Child Neuropsychiatry, IRCCS Mondino Foundation, Pavia, Italy

12 Neuroimmunology and Neuromuscular Disease Unit, Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan, Italy

13 Neurology Unit, IRCCS San Raffaele Scientific Institute, Milan, Italy

- 14 Department of Child Neurology and Psychiatry, AOU Maggiore della Carità Novara, Novara, Italy
- 15 Division of Child Neuropsychiatry, University Hospital of Sassari, Italy.
- 16 Department of Neurology and Multiple Sclerosis Regional Referral Centre, AOU San Luigi Gonzaga, Orbassano, Turin, Italy
- 17 Department of Neuroscience, Niguarda Hospital, Milano, Italy
- 18 Pediatric Neurology Unit, Regina Margherita Hospital, Torino
- 19 Second Division of Neurology, Department of Clinical and Experimental Medicine, University of Campania Luigi Vanvitelli, Naples, Italy
- 20 Neurology and Multiple Sclerosis Center, Foundation Institute "G. Giglio", Cefalù, Italy and UniCamillus International University of Health and Medical Sciences, Rome, Italy
- 21 Department of Neurology, Papa Giovanni XXIII Hospital, Bergamo, Italy
- 22 MS Center, San Pietro Fatebenefratelli Hospital, Rome, Italy
- 23 MS Centre, Neurology Unit, SS. Annunziata University Hospital, Chieti, Italy.
- 24 Institute for Advanced Biomedical Technologies (ITAB), Department of Neurosciences, Imaging and Clinical Sciences, University G. d'Annunzio of Chieti-Pescara, Chieti, Italy
- 25 Department of Neurosciences, Imaging and Clinical Sciences, University G. d'Annunzio of Chieti-Pescara, Chieti, Italy
- 26 University Centre for Rehabilitation, Disability and Sport Medicine (CARES), University G. d'Annunzio of Chieti-Pescara, Chieti, Italy
- 27 Laboratory of Precision Medicine of Neurological Diseases, "Aldo Ravelli" Center for Neurotechnology and Experimental Brain Therapeutics, Department of Health Science, University of Milan, Milan, Italy
- 28 Department NEUROFARBA, Section of Neurosciences, University of Florence, Florence, Italy
- 29 IRCCS Fondazione Don Carlo Gnocchi, Florence, Italy
- 30 Department of Translational Biomedicine and Neurosciences – DiBraIn, University of Bari "Aldo Moro", Bari, Italy
- 31 Clinical Neurology Unit, Azienda Socio-Sanitaria Territoriale Santi Paolo e Carlo and Department of Health Sciences, University of Milan, Milan, Italy
- 32 MS Centre, IRCCS Mondino Foundation, Pavia, Italy

Corresponding author

Silvy Pilotto, MD; Department of Neuroscience and Rehabilitation, University of Ferrara, Sant'Anna University Hospital, Via Aldo Moro 8, 44124, Ferrara, Italy; e-mail: silvy.pilotto@unife.it

List of Collaborating Centers and number of subjects enrolled for PEDIGREE Questionnaire Collection.

1. Stefania Maria Bova, Arianna Gadda (Child Neurology Unit - Buzzi Children's Hospital), Ylenia Vaia, Ilenia Serati, Germana Lomonaco (Dpt. of Biomedical and Clinical Science, University of Milan) – 35 subjects enrolled
2. Eleonora Cocco, Silvy Pilotto, Gabriella Spinicci, Maria Fronza, Maria Rita Murru, Valentina Fadda (Centro SM, Cagliari) – 22 subjects enrolled
3. Pietro Annovazzi, Mattia Pozzato, Patrizia Carta (Centro SM, ASST Valle Olona, Gallarate) – 22 subjects enrolled
4. Maria Trojano, Pietro Iaffaldano, Damiano Paolicelli, Alessia Manni (DiBraIN, University of Bari "Aldo Moro"), Marta Simone (Child Neuropsychiatry Unit, Bari) – 19 subjects enrolled
5. Gioacchino Tedeschi, Antonio Gallo, Alvino Bisecco (Università della Campania Luigi Vanvitelli, Napoli) – 18 subjects enrolled
6. Agnese Suppiej (Neuropsych. Inf., Ferrara) – 16 subjects enrolled
7. Vincenzo Brescia Morra, Roberta Lanzillo (Università Federico II, Napoli) – 11 subjects enrolled
8. Sarah Rasia, Ruggero Capra (Centro SM, Montichiari, Brescia) – 11 subjects enrolled
9. Angela Berardinelli, Sara Fusco (Neuropsych. Inf., IRCCS Fondazione Mondino, Pavia) – 11 subjects enrolled
10. Lucia Moiola, Chiara Zanetta, Federica Esposito, Massimo Filippi (HSR, Milano) – 10 subjects enrolled
11. Valentina Liliana Adriana Torri Clerici, Alessandra Tozzo (Istituto Neurologico Besta, Milano) – 10 subjects enrolled
12. Maurizio Viri, Amanda Papa, Fabio Brustia (Neuropsychiatria Infantile, Ospedale Maggiore, Novara), Martina Tosi, Nicola Pomella, Domizia Vecchio (Università Piemonte Orientale, Novara) – 8 subjects enrolled
13. Maura Pugliatti, Caterina Ferri, Michele Laudisi, Eleonora Baldi (UO Neurologia Universitaria, Università di Ferrara, Centro SM) – 8 subjects enrolled
14. Stefano Sotgiu, Alessandra Carta (U.O. Neuropsych. Inf. AOU Sassari) – 7 subjects enrolled
15. Simona Malucchi, Martina Borghi, Paola Valentino (CReSM, AOU San Luigi Gonzaga, Orbassano-Torino) – 6 subjects enrolled
16. Alessandra Protti, Lorenzo Saraceno (Centro SM, Dip. Neuroscienze, Osp. Niguarda, Milano) – 6 subjects enrolled
17. Carlotta Canavese (Neurologia Pediatrica, Osp. Inf. Regina Margherita di Torino) – 5 subjects enrolled
18. Giacomo Lus, Marcella Coletta (Centro SM II Neurologia, Università della Campania, Napoli) – 3 subjects enrolled
19. Marta Zaffira Conti, Marta Radaelli (UO. Neurologia, Bergamo) – 3 subjects enrolled
20. Luigi Maria Edoardo Grimaldi, Oscar Oddo (Fondazione Istituto G. Giglio, Cefalù-Palermo) – 1 subject enrolled
21. Valentina Tomassini, Giovanna De Luca (ITAB, Univ. Chieti-Pescara) – 1 subject enrolled
22. Carlo Pozzilli, Viola Baione, Giorgia D'Ambrosi (Azienda Ospedaliera Universitaria, S. Andrea, Roma) – 1 subject enrolled

23. Maria Pia Amato, Emilio Portaccio, Camilla Masciulli (Dip. NEUROFARBA, Università di Firenze)
– 1 subject enrolled
24. Filippo Martinelli Boneschi, Alen Zollo, Andrea Corona, Alessandra Mingione (San Paolo, Milano)
25. Roberto Bergamaschi, Stefano Parravicini (IRCCS Fondazione Mondino, Pavia)