



Curriculum Vitae

Personal information **Antonio Clavenna**

Work experience

1. Employer: Istituto Ricerche Farmacologiche Mario Negri IRCCS
 - Start date: 01, 2021
 - End date: present
 - Position: Head of Laboratory of Pharmacoepidemiology (now Laboratory of Child Health and Development Epidemiology)
 - Activities: Monitoring and epidemiological evaluation of drug utilization and effects of drugs in motherhood and childhood; transfer of information to the community; research methodology in general hospital and pediatric community practice; epidemiology of pediatric and perinatal care.
 - Country: Italy
2. Employer: Istituto Ricerche Farmacologiche Mario Negri IRCCS
 - Start date: 012012
 - End date: 122020
 - Position: Head of Pharmacoepidemiology Unit
 - Activities: Monitoring and epidemiological evaluation of drug utilization and effects of drugs in motherhood and childhood; transfer of information to the community; research methodology in general hospital and pediatric community practice; epidemiology of pediatric and perinatal care.
 - Country: Italy
3. Employer: IRCCS_Istituto Ricerche Farmacologiche Mario Negri
 - Start date: 102000
 - End date: 122011
 - Position: Researcher in the Laboratory for Mother and Child Health
 - Activities: Monitoring and epidemiological evaluation of drug utilization and effects of drugs in motherhood and childhood; transfer of information to the community; research methodology in general hospital and pediatric community practice; epidemiology of pediatric and perinatal care.
 - Country: Italy

Education and training

1. Subject: Open University
 - Start date: 2005
 - End date: 2010
 - Qualification: Doctor of Philosophy
 - Organisation: Thesis title "Drug Use in Out Patient Children: Epidemiological Evaluations"
 - Country: United Kingdom
2. Subject: University of Milan
 - Start date: 1994
 - End date: 1998
 - Qualification: Specialist in Clinical Pharmacology
 - Organisation: Clinical Pharmacology
 - Country: Italy
3. Subject: University of Milan
 - Start date: 10, 1988
 - End date: 07, 1994
 - Qualification: Medical Degree
 - Organisation: Medicine
 - Country: Italy

Additional information

Publications

1. Segre G, Roberti E, Campi R, Clavenna A, Bonati M.
Neurodevelopmental Trajectories at 3 Years: Insights From
the NASCITA Italian Birth Cohort. Int J Pediatr.
2026;2026:9936886. doi: 10.1155/ijpe/9936886.
2. Thomas T, Eyre M, Ferrarin E, Newlove-Delgado T, Sie A,
Armangue T, Ben-Pazi H, Benhouma H, Clavenna A, ...

- Morton M, Dale RC, Nosadini M, Lim M. Evaluation, Diagnosis, and Treatment of Sydenham Chorea: Consensus Guidelines. *Pediatrics*. 2025;156(6):e2025072466. doi: 10.1542/peds.2025-072466.
3. Roberti E, Clavenna A, Basso E, Scarpellini F, Campi R, Giardino M, Zanetti M, Bonati M; on behalf of the TransiDEA Group. Delphi consensus on the transition from pediatric to adult care in Italian ADHD youth. *Eur Child Adolesc Psychiatry*. 2025;34(12):4083-4091. doi: 10.1007/s00787-025-02810-w.
 4. Ranucci M, Staszewsky L, Cartabia M, Tettamanti M, Lepore V, Robusto F, Clavenna A, D'Ettorre A, Arbustini E, Baldassarre D, La Rovere MT, Montorfano M, Parati G, Pedretti RFE, Raffa GM, Santini F, Stefanini G, Volterrani M, Fortino I, Bisceglia L, Menicanti L, Latini R. When Real-World Outcomes Do Not Meet the Results of Clinical Trials: Transfemoral Transcatheter vs. Surgical Aortic Valve Replacement in an Intermediate-Age Population (The Outstanding Italy Study). *J Clin Med*. 2025;14(10):3471. doi: 10.3390/jcm14103471. PMID: 40429465.
 5. Servadio M, Belleudi V, Poggi FR, Perna S, Addis A, Davoli M, Trotta F, Fortinguerra F; MoM-Net Group. Real-world antibiotic utilization during pregnancy in Italy: a multiregional retrospective population-based study. *BMC Pregnancy Childbirth*. 2025;25(1):480. doi: 10.1186/s12884-025-07605-0.
 6. Segre G, Clavenna A, Roberti E, Campi R, Bonati M. Within-couple comparison of maternal and paternal distress in an Italian birth cohort. *BMC Psychol*. 2024;12(1):611. doi: 10.1186/s40359-024-02137-2.
 7. Roberti E, Clavenna A, Basso E, Bravaccio C, Riccio MP, Pincherle M, Duca M, Giordani C, Scarpellini F, Campi R, Giardino M, Zanetti M, Tessarollo V, Costantino I;

- TransiDEA Group; Bonati M. Challenges in transitioning from adolescent to Adult Mental Health Services for young adults with ADHD in Italy: an observational study. *Epidemiol Psychiatr Sci.* 2024;33:e49. doi:10.1017/S2045796024000544.
8. Garattini L, Clavenna A. RSV prevention options for infants and older adults: A specific expanding competitive arena. *Health Policy.* 2024 Dec;150:105187. doi: 10.1016/j.healthpol.2024.105187.
 9. Clavenna A, Cartabia M, Fortino I, Bonati M. Burden of the COVID-19 pandemic on adolescent mental health in the Lombardy Region, Italy: a retrospective database review. *BMJ Paediatr Open.* 2024 Sep 28;8(1):e002524. doi: 10.1136/bmjpo-2024-002524.
 10. Roberti E, Scarpellini F, Campi R, Giardino M, Zanetti M, Clavenna A, Bonati M. Protocols for transitioning to adult mental health services for adolescents with ADHD. *BMC Psychiatry.* 2024;24(1):603.
 11. Segre G, Clavenna A, Roberti E, Campi R, Rapisardi G, Bonati M. Children's nocturnal awakenings and sleep duration during the first two years of life in the NASCITA cohort study. *Sleep Med.* 2024;121:127-134. doi: 10.1016/j.sleep.2024.06.027.
 12. Pandolfini C, Clavenna A, Campi R, Cartabia M, Finazzi S, Bonati M. Parental practices that influence children's development: how often are they implemented and by whom-results from the NASCITA birth cohort study. *Eur J Pediatr.* 2024 Apr 22. doi: 10.1007/s00431-024-05564-w.
 13. Segre G, Clavenna A, Roberti E, Scarpellini F, Cartabia M, Pandolfini C, Tessarollo V, Costantino I, Bonati M. Pediatrician and parental evaluation of child neurodevelopment at 2 years of age. *BMC Pediatr.* 2024;24(1):137.

14. Clavenna A, Cartabia M, Fortino I, Bonati M. Drug prescription profile in children with autism spectrum disorders. *Eur J Clin Pharmacol.* 2024;80(2):297-299
15. Roberti E, Scarpellini F, Campi R, Giardino M, Clavenna A, Bonati M;TransiDEA group. Transitioning to adult mental health services for young people with ADHD: an Italian-based survey on practices for pediatric and adult services. *Child Adolesc Psychiatry Ment Health.* 2023;17(1):131.
16. Segre G, Clavenna A, Cartabia M, Bonati M; NASCITA Working Group. Postpartum depression screening in mothers and fathers at well-child visits: a feasibility study within the NASCITA cohort. *BMJ Open.* 2023;13(6):e069797.
17. Fortinguerra F, Belleudi V, Poggi FR, Perna S, Bortolus R, Donati S, D'Aloja P, Da Cas R, Clavenna A, Locatelli A, Addis A, Davoli M, Trotta F; MoM-Net group. Monitoring medicine prescriptions before, during and after pregnancy in Italy. *PLoS One.* 2023 Jun 15;18(6):e0287111.
18. Alagna M, Clavenna A, Reali L, Lallo A, Fusco D, Davoli M, Di Martino M. Use of inhaled corticosteroids in preschool children and variability among pediatricians: a real-world analysis before and during the SARS-CoV-2 pandemic. *BMC Pediatr.* 2023 Apr 1;23(1):151.
19. Faraguna MC, Lepri I, Clavenna A, Bonati M, Vimercati C, Sala D, Cattoni A, Melzi ML, Biondi A. The bronchiolitis epidemic in 2021-2022 during the SARS-CoV-2 pandemic: experience of a third level centre in Northern Italy. *Ital J Pediatr.* 2023;49(1):26.
20. Clavenna A, Morabito E, Cartabia M, Campi R, Pandolfini CL, Bonati M; NASCITA Working Group. National, longitudinal NASCITA birth cohort study: prevalence of overweight at 12 months of age in children born healthy. *BMJ Paediatr Open.* 2023;7(1):e001622.

21. Pandolfini C, Clavenna A, Cartabia M, Campi R, Bonati M; NASCITA Work Group. National, longitudinal NASCITA birth cohort study to investigate the health of Italian children and potential influencing factors. *BMJ Open*. 2022;12(11):e063394.
22. Clavenna A, Cartabia M, Fortino I, Leoni O, Bonati M. Delay in pharmacological treatment of autistic children after recognition of the disorder. *Eur Neuropsychopharmacol*. 2022 Nov 10;65:54-55.
23. Clavenna A, Zanini A, Pelucchi M, Bersani C, Canevini MP, Sala D, Albizzati A, Biondi A, Bonati M. Trend of Emergency Department Accesses for Mental Disorders by Adolescents During the Pandemic Period. *Pediatr Emerg Care*. 2022;38(4):e1233-e1235. doi: 10.1097/PEC.0000000000002686.
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- a national survey. *BMC Public Health*. 2021;21(1):1035.
29. Stocchetti N, Segre G, Zanier ER, Zanetti M, Campi R, Scarpellini F, Clavenna A, Bonati M. Burnout in Intensive Care Unit Workers during the Second Wave of the COVID-19 Pandemic: A Single Center Cross-Sectional Italian Study. *Int J Environ Res Public Health*. 2021;18(11):6102.
30. Belleudi V, Fortinguerra F, Poggi FR, Perna S, Bortolus R, Donati S, Clavenna A, Locatelli A, Davoli M, Addis A, Trotta F. The Italian Network for Monitoring Medication Use During Pregnancy (MoM-Net): Experience and Perspectives. *Front Pharmacol*. 2021;12:699062.
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36. Clavenna A, Nardelli S, Sala D, Fontana M, Biondi A, Bonati M. Impact of COVID-19 on the Pattern of Access to a Pediatric Emergency Department in the Lombardy Region, Italy. *Pediatr Emerg Care*. 2020;36:e597-e598.
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38. Pansieri C, Pandolfini C, Clavenna A, Choonara I, Bonati M. An Inventory of European Birth Cohorts. *Int J Environ Res Public Health*. 2020;17(9):E3071
39. Vitello AS, Clavenna A, Cartabia M, Sala D, Biondi A, Bonati M. Evaluation of the Pattern of Use of a Pediatric Emergency Department in Italy. *Pediatr Emerg Care*. 2021 Dec 1;37(12):e1494-e1498.
40. Pansieri C, Clavenna A, Pandolfini C, Zanetti M, Calati MG, Miglio D, Cartabia M, Zanetto F, Bonati M. NASCITA Italian birth cohort study: a study protocol. *BMC Pediatr*. 2020;20(1):80.
41. Messina F, Clavenna A, Cartabia M, Piovani D, Bortolotti A, Fortino I, Merlino L, Bonati M. Antibiotic prescription in the outpatient paediatric population attending emergency departments in Lombardy, Italy: a retrospective database review. *BMJ Paediatr Open*. 2019;3(1):e000546. doi: 10.1136/bmjpo-2019-000546.
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44. Putignano D, Clavenna A, Reale L, Bonati M. The evidence-based choice for antipsychotics in children and adolescents should be guaranteed. *Eur J Clin Pharmacol*. 2019; 75:769-776.
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46. Putignano D, Clavenna A, Campi R, Canevini MP, Vignoli A, Battino D, Beghi E, Perucca E, Bortolotti A, Fortino I, Merlino L, Bonati M. Perinatal outcome and healthcare resource utilization in the first year of life after antiepileptic exposure during pregnancy. *Epilepsy Behav*. 2019;92:14-17.
47. Casartelli P, Clavenna A, Cartabia M, Bortolotti A, Fortino I, Merlino L, Biondi A, Bonati M. Spirometry monitoring in asthmatic children in Lombardy Region, Italy. *BMJ Paediatr Open*. 2018 Oct 9;2(1):e000334. doi: 10.1136/bmjpo-2018-000334
48. Trifirò G, Gini R, Barone-Adesi F, Beghi E, Cantarutti A, Capuano A, Carnovale C, Clavenna A, Dellagiovanna M, Ferrajolo C, Franchi M, Ingrassiotta Y, Kirchmayer U, Lapi F, Leone R, Leoni O, Lucenteforte E, Moretti U, Mugelli A, Naldi L, Poluzzi E, Rafaniello C, Rea F, Sultana J, Tettamanti M, Traversa G, Vannacci A, Mantovani L, Corrao G. The Role of European Healthcare Databases for Post-Marketing Drug Effectiveness, Safety and Value Evaluation: Where Does Italy Stand? *Drug Saf*. 2019; 42:347-363
49. Riva B, Clavenna A, Cartabia M, Bortolotti A, Fortino I, Merlino L, Biondi A, Bonati M. Emergency department use by paediatric patients in Lombardy Region, Italy: a population study. *BMJ Paediatr Open*. 2018;2:e000247.
50. Piovani D, Clavenna A, Cartabia M, et al Assessing the quality of paediatric antibiotic prescribing by community

paediatricians: a database analysis of prescribing in Lombardy *BMJ Paediatrics Open* 2017;1:e000169.

51. Clavenna A, Bonati M. Pediatric pharmacoepidemiology - safety and effectiveness of medicines for ADHD. *Expert Opin Drug Saf.* 2017;16:1335-1345.
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53. Bachmann CJ, Aagaard L, Bernardo M, Brandt L, Cartabia M, Clavenna A, et al. International trends in clozapine use: a study in 17 countries. *Acta Psychiatr Scand.* 2017;136:37-51.
54. Clavenna A, Seletti E, Cartabia M, Didoni A, Fortinguerra F, Sciascia T, Brivio L, Malnis D, Bonati M; Postnatal Depression Study Group. Postnatal depression screening in a paediatric primary care setting in Italy. *BMC Psychiatry.* 2017;17:42.
55. Putignano D, Clavenna A, Campi R, Bortolotti A, Fortino I, Merlino L, Vignoli A, Canevini MP, Bonati M. Antiepileptic drug use in Italian children over a decade. *Eur J Clin Pharmacol.* 2017;73:241-248.
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57. Bianchi M, Clavenna A, Piovani D, Bonati M. In Italy anti-asthmatic drug prescription is not always a reliable proxy of

- asthma. *Eur J Epidemiol.* 2016;31:531-2. (letter)
58. Bianchi M, Cartabia M, Clavenna A, Fortino I, Bortolotti A, Merlino L, Bonati M. Serological screening for celiac disease in a northern Italian child and adolescent population after the onset of type 1 diabetes: a retrospective longitudinal study of a 7-year period. *Eur J Gastroenterol Hepatol.* 2016;28:696-701.
59. Piovani D, Clavenna A, Cartabia M, Bonati M. Psychotropic medicine prescriptions in Italian youths: a multiregional study. *Eur Child Adolesc Psychiatry.* 2016;25:235-245.
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- in children: a review of published prospective clinical trials. *Arch Dis Child*. 2014;99:866-872.
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69. Clavenna A, Sequi M, Cartabia M, Fortinguerra F, Borghi M, Bonati M; ENBe Study Group. Effectiveness of nebulized beclomethasone in preventing viral wheezing: an RCT. *Pediatrics*. 2014;133(3):e505-12.
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- costs of paediatric antibiotic prescribing in the community by implementing guideline recommendations. *J Clin Pharm Ther.* 2013;38:373-8.
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- anti-asthmatic drug prescriptions for children. Systematic review of studies published during the 2000-2009 period. *Eur J Clin Pharmacol*. 2010;66:929-936.
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- Use During Breastfeeding: A Review of the Evidence. *Pediatrics*. 2009;124:e547-e556.
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Projects

"Prescription, efficacy, and safety of psychotropic drugs in the Italian paediatric population" funded by the Italian Medicine Agency

"Efficacy Of Nebulised Beclometasone Versus Placebo In Preventing Viral Wheezing In Pre-School Children" (2009-2013), funded by the Italian Medicine Agency (Principal Investigator).

"Transition care between adolescent and adult services for young people with chronic health needs in Italy" (2021-2024), funded by the Italian Ministry of Health (RF_2019_12371228) (Co-PI)

"Epidemiologia del Farmaco (EPIFARM)", funded by the Lombardy Region Directorate General for Health (Ongoing)

Memberships

Council member of the European Society for Developmental Perinatal and Pediatric Pharmacology (2011- 2017)

Member of the Associazione Culturale Pediatri (Pediatricians' Cultural Association), Italy

Other Relevant Information

I have substantial experience in providing advice to both the general public and healthcare professionals on the safety of drug use during pregnancy and lactation (telephone and email consultations, drafting of informational leaflets).