

# **CURRICULUM VITAE MARIA PIA FANTINI**

**01/5/2023**

Member of Medical Register of Bologna n. 0000009092

Full Professor of General and Applied Hygiene (Academic discipline MED/42)

Department of Biomedical and Neuromotor Sciences, University of Bologna

## **Qualifications**

2014 - National Scientific Qualification as Full Professor

1991 – Specialization in Paediatric Neuropsychiatry, University of Bologna

1983 – Specialization in Immunological and Allergic Diseases, University of Florence

1980 – Specialization in Paediatrics, University of Bologna

1977 – Board Certified Physician

1977 - Degree in Medicine and Surgery, University of Bologna

## **Positions held**

November 2022 – present Professor Alma mater Studiorum University of Bologna

November 2016 – October 2022: Full Professor of General and Applied Hygiene (Academic discipline MED/42), University of Bologna, School of Medicine.

May – June 2016. Visiting Professor at the Center for Health Policy/Primary Care and Outcomes Research, Stanford University, California, USA.

October 2002 – October 2016 : Associate Professor of Health Care Services Planning and Organization, University of Bologna, School of Medicine.

April 1996 – October 2002: Assistant Professor of Health Care Services Planning and Organization, School of Medicine, University of Bologna.

2015 – present: Coordinator of the Degree Course in Public Health Promoters, School of Medicine, University of Bologna.

2014 – present: Director of the Post-graduate School in Hygiene and Preventive Medicine, University of Bologna.

September 2010 – present: Head of Master Course in “Health Care Services Management for healthcare managers”, University of Bologna.

2009–2015: Coordinator of the Course in Preventive Techniques in the Environment and in the Workplace, School of Medicine, University of Bologna.

2004–2007: Coordinator of the PhD Program in Public Health and Occupational Medicine.

2002–2006: Director of the High School in Health Care Policies, University of Bologna (Interdepartmental centre of the Department of Medicine and Public Health, Department of Economic Sciences and Specialty School in Public Administration).

2009–2014. Director of the Master in “Health care organization management”, University of Bologna.

2000–2008: Director of Master in “Planning, organisation and evaluation of health care services”, University of Bologna.

July – August 1997: Visiting research assistant at the Center for Research in Medical Education and Health Care, Jefferson Medical College, University in Philadelphia, Pennsylvania.

1996–2002: Consultant to the Health Care and Social Authority, Emilia Romagna Region for the provision, utilisation, and evaluation of health care services; Project Coordinator “Evaluation of the ambulatory case mix”, funded by the Italian Ministry of Health, and “Development and validation of guidelines for the application of knowledge-based practices in health care services”.

1989–1996: Chief medical assistant in community paediatric services and Director of public health program in paediatrics, Mother and Child Services, Local Health Authority of Bologna.

1982–1989: Community paediatrician, community health program coordinator for paediatric nutrition and vaccinations, and school integration of HIV-positive children.

### **Research activities and Funding**

Design, development and piloting of a curriculum and training material for Public Health Emergency Preparedness for the ECDC (NP/2017/PHC/7583/01).

Research agreement with Scuola Superiore Sant’Anna (Pisa) (2009-2020). "Construction and validation of indicators for the evaluation of the performance of health organizations"

Research agreement with the Department of Mental Health of the USL Bologna Company for the years 2015 and 2016: "Analysis of internal comorbidities, health consumption and mortality in the field of adult mental health"

Research agreement with the Institute for Social Security of the Republic of San Marino for the years 2015 and 2016: "Hospital / Territory Integration: how to develop integrated therapeutic diagnostic paths with particular reference to diabetes, COPD, heart failure and stroke. Roles and responsibilities of the various professional components "

Research agreement with the University of Pittsburgh, USA (2015/2016): "Psychotherapy for the acute treatment of Bipolar II Depression

Programma Regione Università 2010/2012. Unit 2 coordinator. “Newborns and children with complex health care needs. Implementation and evaluation of sheltered discharge and integrated care pathways in the province of Bologna, funded by the AOSP Sant’Orsola–Malpighi, Bologna. Duration : 14/04/2012 – 13/04/2014 – extended to 13/04/2015).

CCM Program 2009 Regione Emilia Romagna – Direzione Generale Sanità e Politiche Sociali. Scientific Coordinator “Comprehensive Community and Home–Based Health Care Model (CCHBHC) for people with social or health frailty and patients with COPD or Heart Failure. Duration: 09/03/2010 – 09/03/2012, extended to March 2013).

PRIN 2007 Unit coordinator “Practice models of family paediatricians and their impact on care practice “ Duration 24 months: 22/09/2008 – 21/09/2010.

Programma Regione–Università 2007/2009. Unit coordinator. “Evaluation of the impact of audit and feedback instruments on clinical outcomes in surgery and internal medicine”. Duration 24 months: 15/02/2008 – 14/02/2010.

Fifth Framework Programme, European Commission. Unit coordinator “Tele–re–Habilitation thRough Interactive Video Endorsement (THRIVE)– QLG5–CT–2002–01386”. Duration: 48 months: 02 /01/2003 31/12/2006.

### **University teaching**

Undergraduate courses currently held at the University of Bologna:

Medicine and Surgery

- General and applied hygiene
- Planning, organisation and healthcare management

Physiotherapy

- Medical Statistics

Preventive strategies for the environment and workplaces

- Epidemiology and vaccination strategies

Public health promoters

- Epidemiological methods for the research in healthcare
- Principles of epidemiology
- Global health and its determinants

Graduate courses currently held at the University of Bologna:

Hygiene and Preventive Medicine:

- Hygiene and public health
- Descriptive and inferential epidemiology
- Quality evaluation for health services
- Local healthcare organizational models

Occupational Medicine:

- Medical statistics
- General and applied hygiene

Courses in Hygiene and Public Health for residents in: forensic medicine, infectious diseases, nutritional sciences, ophthalmology, paediatrics, radio-diagnostics and vascular surgery at the University of Bologna.

### **International teaching**

July 2013 (Bertinoro, Italy) – Teaching experience in the international course in “Organizzazione e Gestione dei servizi socio sanitari territoriali per manager socio sanitari Yemeniti” organised by the NGO CESTAS in collaboration with Bologna University.

May–June 2012 (Santiago, Chile) – Lecturer at the International Master of “Salud Pública, Políticas Sanitarias, Organización de los Servicios y Epidemiología, con énfasis en Salud Materno–Infantil y Enfermedades Emergentes”, organized by the NGO CESTAS in collaboration with Bologna University.

March 2009 (Rennes, France) – Lecturer at “École des hautes études en santé publique”, as a faculty member part of the Erasmus Programme.

### **Membership in Scientific Associations/Committees**

Società Italiana di Igiene – Italian Association of Public Health

Società Italiana Medici Manager Italian Association of Medical Managers

European Public Health Association EUPHA

CARD Italian Association of District Directors in Primary Care

### **Research interests:**

- Public Health
- Outcomes research
- Health services research
- Pediatrics

Maria Pia Fantini is author of 230 publications indexed in SCOPUS.

SCOPUS H-index is 43, with a total of 6446 citations.

She authored 4 books and 48 book chapters.

### **Lastly Published papers on impacted international journals**

Golinelli D, Lenzi J, Adja KYC, Reno C, Sanmarchi F, Fantini MP, Gibertoni D. Small-scale spatial analysis shows the specular distribution of excess mortality between the first and second wave of the COVID-19 pandemic in Italy. *Public Health*. 2021 Mar 26;194:182-184. doi: 10.1016/j.puhe.2021.03.008. Epub ahead of print. PMID: 33962094.

Reno C, Maietti E, Fantini MP, Savoia E, Manzoli L, Montalti M, Gori D. Enhancing COVID-19 Vaccines Acceptance: Results from a Survey on Vaccine Hesitancy in Northern Italy. *Vaccines (Basel)*. 2021 Apr 13;9(4):378. doi: 10.3390/vaccines9040378. PMID: 33924534; PMCID: PMC8070202.

Montalti M, Rallo F, Guaraldi F, Bartoli L, Po G, Stillo M, Perrone P, Squillace L, Dallolio L, Pandolfi P, Resi D, Fantini MP, Reno C, Gori D. Would Parents Get Their Children Vaccinated Against SARS-CoV-2? Rate and Predictors of Vaccine Hesitancy According to a Survey over 5000 Families from Bologna, Italy. *Vaccines (Basel)*. 2021 Apr 10;9(4):366. doi: 10.3390/vaccines9040366. PMID: 33920109; PMCID: PMC8069076.

Damiani G, Pascucci D, Sessa G, Morini M, Fantini MP, Buja A, Lonati F; Expert Panel, Adja KYC. La Fragilità in una prospettiva di Sanità Pubblica: principi e strumenti per un approccio "life course" orientato alla prevenzione [Fragility in a Public Health perspective: principles and tools for a "life course" approach prevention-oriented]. *Ig Sanita Pubbl*. 2021 Jan-Feb;77(1):381-403. Italian. PMID: 33883749.

Santi L, Golinelli D, Tampieri A, Farina G, Greco M, Rosa S, Beleffi M, Biavati B, Campinoti F, Guerrini S, Ferrari R, Rucci P, Fantini MP, Giostra F. Non-COVID-19 patients in times of pandemic: Emergency department visits, hospitalizations and cause-specific mortality in Northern Italy. *PLoS One*. 2021 Mar 22;16(3):e0248995. doi: 10.1371/journal.pone.0248995. PMID: 33750990; PMCID: PMC7984614.

### **Peer reviewed publications (last ten years)**

1: Gori D, Reno C, Remondini D, Durazzi F, **Fantini MP**. Are We Ready for the Arrival of the New COVID-19 Vaccinations? Great Promises and Unknown Challenges Still to Come. *Vaccines (Basel)*. 2021 Feb 18;9(2):173. doi: 10.3390/vaccines9020173. PMID: 33670697; PMCID: PMC7922137.

2: Cataneo I, Carapezzi A, Livi A, Lenzi J, **Fantini MP**, Lazzarotto T, Gabrielli L, Simonazzi G. Maternal perception of the risk of vertically transmitted infections: the impact of expert counselling. *Am J Obstet Gynecol MFM*. 2021 Feb 27:100341. doi: 10.1016/j.ajogmf.2021.100341. Epub ahead of print. PMID: 33652157.

3: Golinelli D, Boetto E, Mazzotti A, Rosa S, Rucci P, Berti E, Ugolini C, **Fantini MP**. Cost Determinants of Continuum-Care Episodes for Hip Fracture. *Health Serv Insights*. 2021 Feb 16;14:1178632921991122. doi: 10.1177/1178632921991122. PMID: 33642863; PMCID: PMC7894600.

4: Reno C, Lenzi J, Golinelli D, Gori D, Signorelli C, Kraemer J, Stoto MA,

Avitabile E, Landini MP, Lazzarotto T, Re MC, Rucci P, Taliani G, Trerè D, Vocale C, **Fantini MP**. SARS-CoV-2/COVID-19 Testing: The Tower of Babel. *Acta Biomed*. 2020 Nov 9;91(4):e2020144. doi: 10.23750/abm.v91i4.10911. PMID: 33525202; PMCID: PMC7927496.

5: Gibertoni D, Adja KYC, Golinelli D, Reno C, Regazzi L, Lenzi J, Sanmarchi F, **Fantini MP**. Patterns of COVID-19 related excess mortality in the municipalities of Northern Italy during the first wave of the pandemic. *Health Place*. 2021 Jan;67:102508. doi: 10.1016/j.healthplace.2021.102508. Epub 2021 Jan 11. PMID: 33476843; PMCID: PMC7834600.

6: Boetto E, **Fantini MP**, Gangemi A, Golinelli D, Greco M, Nuzzolese AG, Presutti V, Rallo F. Using altmetrics for detecting impactful research in quasi-zero-day time-windows: the case of COVID-19. *Scientometrics*. 2021 Jan 3:1-27. doi: 10.1007/s11192-020-03809-7. Epub ahead of print. PMID: 33424050; PMCID: PMC7779112.

7: Mammana L, Gherardi G, Quargnolo M, Da Mosto D, Bodini C, **Fantini MP**. Modelli organizzativi e criticità dei percorsi assistenziali per richiedenti e titolari di protezione internazionale: la risposta dell'Emilia-Romagna ai recenti fenomeni migratori [Healthcare models and challenges for refugees and asylum seekers: the response of Emilia-Romagna (Northern Italy) to the recent migration trends]. *Epidemiol Prev*. 2020 Sep-Dec;44(5-6 Suppl 1):107-114. Italian. doi: 10.19191/EP20.5-6.S1.P107.080. PMID: 33415953.

8: Baldo V, Reno C, Cocchio S, **Fantini MP**. SARS-CoV-2/COVID-19 Vaccines: The Promises and the Challenges Ahead. *Vaccines (Basel)*. 2021 Jan 4;9(1):21. doi: 10.3390/vaccines9010021. PMID: 33406785; PMCID: PMC7824396.

9: Ubiali A, Gori D, Rochira A, Raguzzoni G, **Fantini MP**. Measures of walkability in the pediatric population: a qualitative review of the literature. *Ann Ig*. 2021 Jan-Feb;33(1):67-85. doi: 10.7416/ai.2021.2409. PMID: 33354697.

10: Xu CJ, Gruziova O, Qi C, Esplugues A, Gehring U, Bergström A, Mason D, Chatzi L, Porta D, Lodrup Carlsen KC, Baiz N, Madore AM, Alenius H, van Rijkom B, Jankipersadsing SA, van der Vlies P, Kull I, van Hage M, Bustamante M, Lertxundi A, Torrent M, Santorelli G, **Fantini MP**, Hovland V, Pesce G; BIOS Consortium, Fyhrquist N, Laatikainen T, Nawijn MC, Li Y, Wijmenga C, Netea MG, Bousquet J, Anto JM, Laprise C, Haahtela T, Annesi-Maesano I, Carlsen KH, Gori D, Kogevinas M, Wright J, Söderhäll C, Vonk JM, Sunyer J, Melén E, Koppelman GH. Shared DNA methylation signatures in childhood allergy: The MeDALL study. *J Allergy Clin Immunol*. 2021 Mar;147(3):1031-1040. doi: 10.1016/j.jaci.2020.11.044. Epub 2020 Dec 15. PMID: 33338541.

11: Adja KYC, Lenzi J, Sezgin D, O'Caoimh R, Morini M, Damiani G, Buja A, **Fantini MP**. The Importance of Taking a Patient-Centered, Community-Based Approach to Preventing and Managing Frailty: A Public Health Perspective. *Front Public Health*. 2020 Nov 12;8:599170. doi: 10.3389/fpubh.2020.599170. PMID: 33282818; PMCID: PMC7689262.

12: Golinelli D, Boetto E, Carullo G, Nuzzolese AG, Landini MP, **Fantini MP**. Adoption of Digital Technologies in Health Care During the COVID-19 Pandemic: Systematic Review of Early Scientific Literature. *J Med Internet Res*. 2020 Nov 6;22(11):e22280. doi: 10.2196/22280. PMID: 33079693; PMCID: PMC7652596.

- 13: Iommi M, Rosa S, Fusaroli M, Rucci P, **Fantini MP**, Poluzzi E. Modified-Chronic Disease Score (M-CDS): Predicting the individual risk of death using drug prescriptions. *PLoS One*. 2020 Oct 16;15(10):e0240899. doi: 10.1371/journal.pone.0240899. PMID: 33064757; PMCID: PMC7567358.
- 14: Maietti E, Golinelli D, **Fantini MP**. COVID-19 in Italy: did the virus run on an ancient Roman road? *Z Gesundh Wiss*. 2020 Oct 7:1-3. doi: 10.1007/s10389-020-01377-x. Epub ahead of print. PMID: 33047092; PMCID: PMC7539755.
- 15: Savoia E, Argentini G, Gori D, Neri E, Piltch-Loeb R, **Fantini MP**. Factors associated with access and use of PPE during COVID-19: A cross-sectional study of Italian physicians. *PLoS One*. 2020 Oct 12;15(10):e0239024. doi: 10.1371/journal.pone.0239024. PMID: 33044978; PMCID: PMC7549784.
- 16: Boetto E, Golinelli D, Carullo G, **Fantini MP**. Frauds in scientific research and how to possibly overcome them. *J Med Ethics*. 2020 Oct 6:medethics-2020-106639. doi: 10.1136/medethics-2020-106639. Epub ahead of print. PMID: 33023976.
- 17: Golinelli D, Boetto E, Maietti E, **Fantini MP**. The association between ABO blood group and SARS-CoV-2 infection: A meta-analysis. *PLoS One*. 2020 Sep 18;15(9):e0239508. doi: 10.1371/journal.pone.0239508. PMID: 32946531; PMCID: PMC7500631.
- 18: Vola F, Vinci B, Golinelli D, **Fantini MP**, Vainieri M. Harnessing pharmaceutical innovation for anti-cancer drugs: Some findings from the Italian regions. *Health Policy*. 2020 Dec;124(12):1317-1324. doi: 10.1016/j.healthpol.2020.07.016. Epub 2020 Aug 12. PMID: 32847692.
- 19: Philips EM, Santos S, Trasande L, Aurrekoetxea JJ, Barros H, von Berg A, Bergström A, Bird PK, Brescianini S, Ní Chaoimh C, Charles MA, Chatzi L, Chevrier C, Chrousos GP, Costet N, Criswell R, Crozier S, Eggesbø M, **Fantini MP**, Farchi S, Forastiere F, van Gelder MMHJ, Georgiu V, Godfrey KM, Gori D, Hanke W, Heude B, Hryhorczuk D, Iñiguez C, Inskip H, Karvonen AM, Kenny LC, Kull I, Lawlor DA, Lehmann I, Magnus P, Manios Y, Melén E, Mommers M, Morgen CS, Moschonis G, Murray D, Nohr EA, Nybo Andersen AM, Oken E, Oostvogels AJJM, Papadopoulou E, Pekkanen J, Pizzi C, Polanska K, Porta D, Richiardi L, Rifas-Shiman SL, Roeleveld N, Rusconi F, Santos AC, Sørensen TIA, Standl M, Stoltenberg C, Sunyer J, Thiering E, Thijs C, Torrent M, Vrijkotte TGM, Wright J, Zvinchuk O, Gaillard R, Jaddoe VWV. Changes in parental smoking during pregnancy and risks of adverse birth outcomes and childhood overweight in Europe and North America: An individual participant data meta-analysis of 229,000 singleton births. *PLoS Med*. 2020 Aug 18;17(8):e1003182. doi: 10.1371/journal.pmed.1003182. PMID: 32810184; PMCID: PMC7433860.
- 20: Adja KYC, Wu E, Golinelli D, Lenzi J, **Fantini MP**. What about social determinants of health against xenophobia? *Public Health*. 2020 Oct;187:187-188. doi: 10.1016/j.puhe.2020.06.046. Epub 2020 Aug 8. PMID: 32782163; PMCID: PMC7414359.
- 21: Gibertoni D, Sansavini A, Savini S, Locatelli C, Ancora G, Perrone E, Ialonardi M, Rucci P, **Fantini MP**, Faldella G, Corvaglia L. Neurodevelopmental

Trajectories of Preterm Infants of Italian Native-Born and Migrant Mothers and Role of Neonatal Feeding. *Int J Environ Res Public Health*. 2020 Jun 25;17(12):4588. doi: 10.3390/ijerph17124588. PMID: 32630587; PMCID: PMC7344423.

22: Adja KYC, Golinelli D, Lenzi J, **Fantini MP**, Wu E. Pandemics and social stigma: Who's next? Italy's experience with COVID-19. *Public Health*. 2020 Aug;185:39-41. doi: 10.1016/j.puhe.2020.05.054. Epub 2020 Jun 4. PMID: 32531533; PMCID: PMC7269934.

23: **Fantini MP**, Reno C, Biserni GB, Savoia E, Lanari M. COVID-19 and the re-opening of schools: a policy maker's dilemma. *Ital J Pediatr*. 2020 Jun 9;46(1):79. doi: 10.1186/s13052-020-00844-1. PMID: 32517815; PMCID: PMC7280677.

24: Lenzi J, Noto G, Corazza I, Lepiksone J, **Fantini MP**. Measuring the quality of care in small countries: the empirical analysis of 30-day mortality following acute myocardial infarction and ischaemic stroke in Latvia. *Health Policy*. 2020 Jul;124(7):695-700. doi: 10.1016/j.healthpol.2020.05.017. Epub 2020 May 27. PMID: 32507525.

25: Sezgin D, O'Caomh R, O'Donovan MR, Salem MA, Kennelly S, Samaniego LL, Carda CA, Rodriguez-Acuña R, Inzitari M, Hammar T, Holditch C, Bettger JP, Vernon M, Carroll Á, Gradinger F, Perman G, Wilson M, Vella A, Cherubini A, Tucker H, **Fantini MP**, Onder G, Roller-Wirnsberger R, Gutiérrez-Robledo LM, Cesari M, Bertoluci P, Kieliszek M, van der Vlegel-Brouwer W, Nelson M, Mañas LR, Antoniadou E, Barriere F, Lindblom S, Park G, Pérez I, Alguacil D, Lowdon D, Alkiza ME, Bouzon CA, Young J, Carriazo A, Liew A, Hendry A; European Union Advantage Joint Action Work Package 7 partners in collaboration with the International Foundation for Integrated Care Special Interest Group on Intermediate Care. Defining the characteristics of intermediate care models including transitional care: an international Delphi study. *Aging Clin Exp Res*. 2020 Nov;32(11):2399-2410. doi: 10.1007/s40520-020-01579-z. Epub 2020 May 19. PMID: 32430887.

26: Reno C, Lenzi J, Navarra A, Barelli E, Gori D, Lanza A, Valentini R, Tang B, **Fantini MP**. Forecasting COVID-19-Associated Hospitalizations under Different Levels of Social Distancing in Lombardy and Emilia-Romagna, Northern Italy: Results from an Extended SEIR Compartmental Model. *J Clin Med*. 2020 May 15;9(5):1492. doi: 10.3390/jcm9051492. PMID: 32429121; PMCID: PMC7290384.

27: Pianori D, Maietti E, Lenzi J, Quargnolo M, Guicciardi S, Adja KYC, **Fantini MP**, Toth F. Sociodemographic and health service organizational factors associated with the choice of the private versus public sector for specialty visits: Evidence from a national survey in Italy. *PLoS One*. 2020 May 7;15(5):e0232827. doi: 10.1371/journal.pone.0232827. PMID: 32379839; PMCID: PMC7205245.

28: Tedesco D, Moghavem N, Weng Y, **Fantini MP**, Hernandez-Boussard T. Improvement in Patient Safety May Precede Policy Changes: Trends in Patient Safety Indicators in the United States, 2000-2013. *J Patient Saf*. 2020 Mar 25. doi: 10.1097/PTS.0000000000000615. Epub ahead of print. PMID: 32217926.

29: Rochira A, Tedesco D, Ubiali A, **Fantini MP**, Gori D. School Gardening Activities Aimed at Obesity Prevention Improve Body Mass Index and Waist Circumference Parameters in School-Aged Children: A Systematic Review and Meta-



Analysis. *Child Obes.* 2020 Apr;16(3):154-173. doi: 10.1089/chi.2019.0253. Epub 2020 Feb 24. PMID: 32091934.

30: Gori D, Costantino C, Odone A, Ricci B, Ialonardi M, Signorelli C, Vitale F, **Fantini MP**. The Impact of Mandatory Vaccination Law in Italy on MMR Coverage Rates in Two of the Largest Italian Regions (Emilia-Romagna and Sicily): An Effective Strategy to Contrast Vaccine Hesitancy. *Vaccines (Basel)*. 2020 Jan 30;8(1):57. doi: 10.3390/vaccines8010057. PMID: 32019092; PMCID: PMC7158674.

31: Messina R, Dallolio L, Fugazzaro S, Rucci P, Iommi M, Bardelli R, Costi S, Denti M, Accogli MA, Cavalli E, Pagliacci D, **Fantini MP**, Taricco M; LAY Project. The Look After Yourself (LAY) intervention to improve self-management in stroke survivors: Results from a quasi-experimental study. *Patient Educ Couns.* 2020 Jun;103(6):1191-1200. doi: 10.1016/j.pec.2020.01.004. Epub 2020 Jan 20. PMID: 31982203.

32: Fattorini M, Wilunda C, Raguzzoni G, Quercioli C, Messina G, **Fantini MP**, Putoto G. Strengthening Routine Immunization Services in an Angolan *<i>Comuna</i>*: The Fight against the Burden of Unvaccinated Children in the Sustainable Development Goals Era. *Int J Environ Res Public Health.* 2019 Nov 19;16(22):4572. doi: 10.3390/ijerph16224572. PMID: 31752274; PMCID: PMC6888547.

33: Bert F, Olivero E, Rossello P, Gualano MR, Castaldi S, Damiani G, D'Errico MM, Di Giovanni P, **Fantini MP**, Fabiani L, Gabutti G, Loperto I, Marranzano M, Masanotti G, Nante N, Rosso A, Squeri R, Signorelli C, Siliquini R; Collaborating Group. Knowledge and beliefs on vaccines among a sample of Italian pregnant women: results from the NAVIDAD study. *Eur J Public Health.* 2020 Apr 1;30(2):286-292. doi: 10.1093/eurpub/ckz209. PMID: 31746999.

34: Lenzi J, Avaldi VM, Molinazzi D, Descovich C, Urbinati S, Cappelli V, **Fantini MP**. Are degree of urbanisation and travel times to healthcare services associated with the processes of care and outcomes of heart failure? A retrospective cohort study based on administrative data. *PLoS One.* 2019 Oct 28;14(10):e0223845. doi: 10.1371/journal.pone.0223845. PMID: 31658280; PMCID: PMC6816546.

35: Gori D, Ialonardi M, Odone A, Ricci B, Pascucci MG, Frasca G, Venturi S, Signorelli C, **Fantini MP**. Vaccine Hesitancy and Mandatory Immunizations in Emilia-Romagna Region: the case of MMR vaccine. *Acta Biomed.* 2019 Sep 19;90(3):394-397. doi: 10.23750/abm.v90i3.8865. PMID: 31580332; PMCID: PMC7233739.

36: Grassi A, Golinelli D, Tedesco D, Rolli M, Bordini B, Amabile M, Rucci P, **Fantini MP**, Zaffagnini S. Patient-reported outcome measures (PROMs) after elective hip, knee and shoulder arthroplasty: protocol for a prospective cohort study. *BMC Musculoskelet Disord.* 2019 Aug 15;20(1):374. doi: 10.1186/s12891-019-2745-3. PMID: 31416443; PMCID: PMC6694507.

37: Rucci P, Avaldi VM, Travaglini C, Ugolini C, Berti E, Moro ML, **Fantini MP**. Medical Costs of Patients with Type 2 Diabetes in a Single Payer System: A Classification and Regression Tree Analysis. *Pharmacoecoon Open.* 2020 Mar;4(1):181-190. doi: 10.1007/s41669-019-0166-8. PMID: 31325148; PMCID: PMC7018859.

38: Gianino MM, Lenzi J, Bonaudo M, **Fantini MP**, Siliquini R, Ricciardi W, Damiani G. Patterns of amenable child mortality over time in 34 member countries of the Organisation for Economic Co-operation and Development (OECD): evidence from a 15-year time trend analysis (2001-2015). *BMJ Open*. 2019 May 22;9(5):e027909. doi: 10.1136/bmjopen-2018-027909. PMID: 31122996; PMCID: PMC6538061.

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