CURRICULUM VITAE et STUDIORUM

Sabrina Molinaro

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EDUCATION

2007–2010 PhD in Public Health and Education Medical School, Pavia University, Italy
Dissertation "Longitudinal models of analysis of treatment outcomes in subjects with cocaine use and poly drug use"

2002–2004 MS in Epidemiology, Medical School, Torino University , Italy
Dissertation "Use of cross-sectional studies for the study of hidden populations"

1991–1996 Degree in clinical and community psychology, Bologna University, Italy
Dissertation "Weekend drug use patterns in adolescents"

CURRENT POSITION & RESEARCH APPOINTEMENTS

Since October 2020 Research Director in Epidemiology at Institute of Clinical Physiology, National Research Council (CNR-IFC)

Since November 2016 International Coordinator of ESPAD (European School Survey on Alcohol and other Drugs) (49 Countries and EU Commission)

Since November 2015 National Expert of the "General Population Survey" indicator for the Italian Focal Point Network REITOX-EMCDDA-Presidency of the Council of Ministers

Since 2010 Head of Epidemiology and Health Services Research Dept of CNR-IFC (25 staff units)

Bibliometrix Indexes

WEB OF SCIENCE F-5828-2012:
Publications 135; H-INDEX: 27
Average citations per item 18,8 times cited: 2.573; without self-citation 2.541

RESEARCH INTERESTS:

The crucial element of her research is to make different disciplines dialogue and to allow the integration of different skills and heterogeneous data. One of the main threads is to draw as much knowledge as possible from existing information. With this aim, since 2010

she has been leading a research group of 25 people (psychologists, biologists, statisticians, economists, jurists, mathematicians, sociologist, archeologists) coordinating both scientific activities and raising funds to complete them. She also deals with conducting studies and disseminating them.

Her main research lines can be summarized in 3 main areas:

POPULATION STUDIES TO ALLOW MONITORING OF HEALTH RISK BEHAVIORS IN HIDDEN POPULATIONS (eg DRUG USERS, GAMBLERS) The study of hidden populations has always been her main interest. After studying substance addictions and associated risk factors, since 2007 she has been working on behavioural addictions, particularly gambling. To estimate the prevalence of these populations, she has developed ad hoc surveys and ecological studies starting from the integration of different data sources. She also has validated screening scales and coordinated monitoring studies.

DEVELOPMENT OF ANALYSIS MODELS FOR PUBLIC HEALTH SYSTEM AND PRECISION MEDICINE Thanks to the interdisciplinarity of her research group, it was possible to develop her competencies in the integrated use of data from heterogeneous sources (standard health flows and clinical data extracted from the patient's medical history, imaging or self-declared by citizens / patients) to analyze the pathological process seen as a continuum from the pre-clinical phase of risk to disease, in order to improve the effectiveness of the care pathway. The aim is to develop replicable analysis models for health policy planning.

EVALUATION OF HEALTH POLICIES THROUGH INNOVATIVE ECONOMETRIC MODELS The scope of policy impact assessment is the most recent challenge she has undertaken. The main objective is to combine the skills developed on the study of hidden populations, those relating to analysis models on treatment pathways and health policies with impact evaluation. In fact, she has recently coordinated the first study of the impact of gambling policies, using a semi-experimental model on heterogeneous data

FORMER PROFESSIONAL POSITIONS

06/2020 – 10/2020 LEAD RESEARCHER in Public health, Precision Medicine, Epidemiology – CNR-IFC - Epidemiology and Health Services Research Department

04/2010 – 05/2020 GROUP LEADER RESEARCHER in Public health, Precision Medicine, Epidemiology - CNR-IFC - Epidemiology and Health Services Research Department

06/2005 – 02/2010 RESEARCHER in Epidemiology and Statistics – CNR-IFC - Epidemiology and Health Services Research Department

11/2001– 05/2005 JUNIOR RESEARCHER in epidemiology and statistics – CNR-IFC - Epidemiology and Health Services Research Department

02/2004 – 07/2008 EPIDEMIOLOGY AND STATISTICS CONSULTANT, Departmental Monitoring Centre on Drug Addiction Local Health Authority (LHA) ASL Milano 2, Setting-up of a local monitoring centre, selection and training of operators, drafting of departmental reports

08/2002 – 03/2004 EPIDEMIOLOGY AND STATISTICS CONSULTANT, Departmental Monitoring Centre on Drug Addiction LHA ASL Città Milano. Epidemiological advisor for a survey on problematic cocaine use

11/1999 – 11/2000 CLINICAL PSYCHOLOGIST Department for pathological dependence LHA ASL 10 Firenze. Intervention of prevention for NET Adolescence

PROJECT COORDINATION (selection of main project in the last 5 Years)
Since 2016 International ESPAD COORDINATOR: ESPAD is the largest European network of independent researchers in the field of addiction (50 countries) and represents a unique standardization model for the collection of data to monitor alcohol, tobacco and illicit substance use, gambling and other health risk behaviors among adolescents. ESPAD is supported by the EMCDDA (European Monitoring Center for Drugs and Drug Addiction).

Since 2017 PI of "Mortalità Zero" project : the P.I.N.K. study (Prevention, Imaging, Network, Knowledge): Longitudinal multicentric study involving 22 breast diagnostic centre across Italy, funded by the Umberto Veronesi Foundation. Aim of the study is to evaluate the diagnostic accuracy in detecting cancers obtained with different combinations of imaging technologies. P.I.N.K. also aims to structure a web-based platform hosting a centralized database for clinical data collected by radiologists during breast examinations and from patient-reported questionnaires.

Since 2018 MedSPAD Coordination Support : The Mediterranean School Survey Project on Alcohol and Other Drugs (MedSPAD) Committee was creted as a result of a MedNET initiative to start capacity building for the collection of data on gambling, gaming and substance use as part of the activities to set up National Observatories in countries bordering the southern rim of the Mediterranean. To date the project involves 13 countries, which are conducting school surveys based on the ESPAD methodology to collect information on the prevalence of substance use and other risk behaviours among school-aged children. The participation in the committee involves scientific support for the standardisation of survey methodologies and instruments as well as for its implementation and data analysis.

2016- 2019 Italian PI of ALAMA-nightlife "Understanding the dynamics and consequences of young adult substance use pathways" transnational project ERANET H2020 ERANID: Obtain an in-depth picture of drug use in entertainment contexts in Europe to understand the patterns of substance consumption and their consequences.

2015-2016 PI "Géographie, statistiques spatiales et génétique", founded by INSERM, Nantes: Identify the parameters for a correct structuring of the electronic health archive, identify algorithms to define the quality of information collected, structure data mining and analysis models for patient classification, record data linkage.

2011-2012 PI of CARPE DIEM "Comorbidity And Risk Profiles Evaluation in Diabetes and hEart Morbidities", CCM -Ministry of Health Call for Finalized Research: Define and validate risk profiling algorithms which allow to objectively identify patterns of morbidity and co-morbidity and define incremental levels of risk.

TEACHING ACTIVITY:

2016-2020 Clinical Statistics, Course in Experimental and Applied Science, "Scuola Superiore Sant'Anna". School of Advanced Studies, Pisa
2016-2018 Master course in Dual Diagnosis - University of Pisa
2016 Biostatistics, Master's Degree Course in Molecular and Industrial Biotechnology – Pisa University
2016 Statistics, Department of Veterinary Sciences – Pisa University

ONGOING SCIENTIFIC COLLABORATIONS:
Since 2005 collaborates with EMCDDA (European Monitoring Centre for Drug and Drug Addiction) of the EU Commission
Since 2013 works with Bioinformatics and Life Sciences, Buffalo Niagara Medical Campus Buffalo's New York State
Since 2013 Associate researcher at Shanghai Institute of Clinical Bioinformatics, Fudan University-China
Since 2013 Associate researcher at Monasterio Foundation for Medical Research and Public Health
Since 2014 Associate researcher at Shanghai Center for Bioinformation Technology Shanghai Academy of Science and Technology-China
Since 2019 collaborate with Management and Health Laboratory, Sant'Anna School for Advanced Studies
Since 2020 participates in joint project of MeS Lab and CNR of Pisa to support Tuscany Region to prevent and reduce harm from gambling in the community

Membership on scientific or advisory boards
Since 2018 Evaluator EU Commission REA/B/05 H2020-WIDESPREAD-04-2018-2019: ERA CHAIRS

Since 2015 Revisory Board Member, CINECA
Since 2012 Scientific Advisory Board, EUSTM (European Society for Translational Medicine)
Since 2012 Scientific Advisory Board, IPQ Analytics, LLC (US)
Since 2012 Scientific Advisory Board, Strategic Medicine, BV (NL)
Since 2012 Consultant, Nathaniel Adamczyk Foundation, (US)
Since 2012 Consultant, PALICC (Pediatric Acute Lung Injury Consensus Consortium) (US-EU)

Membership on editorial boards
Since 2019 Editor, International Journal of Environmental Research and Public Health (IJERPH)
Since 2012 Editor, Computational Modeling and Epidemiology Section, Journal of Translational Medicine (JTM)
Since 2009 Editor, Cardiovascular Ultrasound
Since 2010 Editor, Biomedical Data Journal (BMDJ)

LANGUAGE SKILLS

ITALIAN Mother tongue
ENGLISH Fluent

COMPUTERS SKILLS
Stata, SPSS,

PUBLICATIONS

SELECTION OF LAST 2 YEAR PEER REVIEWED PAPERS:
- Benedetti E, Resce G, Brunori P, Molinaro S. (2021). Cannabis Policy Changes and Adolescent Cannabis Use: Evidence from Europe. International Journal of Environmental Research and Public Health. 2021; 18(10):5174. https://doi.org/10.3390/ijerph18105174
- Scalese, M., Cerrai, S., Biagioni, S., Benedetti, E., Bastiani, L., Potente, R., Cutilli, A., & Molinaro,S. (2021). Trends in energy drink and combined alcohol and energy drinks consumption among Italian high school students, 2008-2019. Drug and alcohol dependence, 228, 109061 https://doi.org/10.1016/j.drugalcdep.2021.109061
- Prinelli F, Bianchi F, Drago G, Ruggieri S, Sojic A, Jesuthasan N, Molinaro S, Bastiani L, Maggi S, Noale M, Galli M, Giacomelli A, Antonelli Incalzi R, Adorni F, Cibella F. EPICOVID19 Working Group, Association Between Smoking and SARS-CoV-2 Infection: Cross-sectional Study of the EPICOVID19 Internet-Based Survey, 2021; JMIR Public Health Surveill. 2021 Apr 28;7(4):e27091
- Pieretti A, Bastiani L, Bellandi T, Molinaro S, Zoppi P, Rasero L., Second Victim Experience and Support Tool: An Assessment of Psychometric Properties of Italian Version. 2021, Journal of Patient Safety. 2021 Feb.
- Carnazza G, Liberati P, Resce G, Molinaro S, Smoking and income distribution: Inequalities in new and old products., 2021; Health Policy. 2021 Feb;125(2):261-268.
- Trevisan C, Noale M, Prinelli F, Maggi S, Sojic A, Di Bari M, Molinaro S, Bastiani L, Giacomelli A, Galli M, Adorni F, Antonelli Incalzi R, Pedone C, on behalf of the EPICOVID19 Working Group.Age-

Related Changes in Clinical Presentation of Covid-19: the EPICOVID19 Web-Based Survey.2021Eur J Intern Med. 2021

- Cerrai S, Potente R, Gorini G, Gallus S, **Molinaro S.** What is the face of new nicotine users? 2012–2018 e-cigarettes and tobacco use among young students in Italy. International Journal of Drug Policy. Volume 86, December 2020; https://doi.org/10.1016/j.drugpo.2020.102941. IF: 4.444
- Bastiani L, Fortunato L, Pieroni S, Bianchi F, Adorni F, Prinelli F, Giacomelli A, Pagani G, Maggi S, Trevisan C, Noale M, Jesuthasan N, Sojic A, Pettenati C, Andreoni M, Antonelli Incalzi R, Galli M, **Molinaro S.** EPICOVID19: Psychometric assessment and validation of a short diagnostic scale for a rapid Covid-19 screening based on reported symptoms. Journal of Medical Internet Research. 29/09/2020:23897 DOI: 10.2196/23897. IF: 5.034
- Adorni F, Prinelli F, Bianchi F, Giacomelli A, Pagani G, Bernacchia D, Rusconi, Maggi S, Trevisan C, Noale M, **Molinaro S**, Bastiani L, Fortunato L, Jesuthasan N, Sojic A, Pettenati C, Tavio M, Andreoni M, Mastroianni C, [...] Galli M. Self-reported symptoms of SARS-CoV-2 infection in a non-hospitalized population: results from the large Italian web-based EPICOVID19 cross-sectional survey. JMIR Public Health Surveill. 2020 Sep 18;6(3): e21866. doi: 10.2196/21866. IF: 2.39 doi: 10.1210/clinem/dgaa233. IF: 5.243
- Waldron J, Grabski M, Freeman TP, Mokrysz C, Hindocha C, Measham F, van Beek R, van der Pol P, Hauspie B, Dirkx N, Schrooten J, Elgán TH, Feltmann K, Benedetti E, Tomba GS, Fabi F, **Molinaro S,** Gripenberg J, van Havere T, [...] Curran HV. "How do online and offline sampling compare in a multinational study of drug use and nightlife behaviour?" Int J Drug Policy, 82:102812, 15 Jun 2020 IF: 4.444
- Sampietro T, Pieroni S, **Molinaro S,** Sbrana F, Dal Pino B, Bigazzi F, Ruscica M, Sirtori CR, Franchini M. Inherited atherogenic dyslipidemias: are they correctly reported? Eur J Prev Cardiol. 2020 Jun 12:2047487320930308. doi: 10.1177/2047487320930308. Online ahead of print. Letter to the editor.IF: 5.864
- Rebelos E, Moriconi D, Scalese M, Denoth F, Siciliano V, **Molinaro S,** Anselmino, Taddei S, Ferrannini E, Nannipieri M. Impact of Postprandial Hypoglycemia on Weight Loss After Bariatric Surgery. Obes Surg. 2020 Jun; 30(6):2266-2273. doi: 10.1007/s11695-020-04465-9. IF: 3.412
- Gerra G, Benedetti E, Resce G, Potente R, Cutilli A, **Molinaro S.** Socioeconomic Status, Parental Education, School Connectedness and Individual Socio-Cultural Resources in Vulnerability for Drug Use among Students. International Journal of Environmental Research and Public Health 17(4):1306 · February 2020. DOI: 10.3390/ijerph17041306. IF: 2.468

"*Autorizzo il trattamento dei miei dati personali ai sensi del Regolamento UE 2016/679 sul trattamento dei dati personali e del precedente d.lgs. 196/03*"

Pisa 24-02-22