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Curriculum vitae

PERSONAL INFORMATION

Paola Berchialla

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WORK EXPERIENCE

01/07/2020-Present — **Associate Professor in Biostatistics**
Department of Clinical and Biological Sciences, University of Torino, Torino (Italy)

01/07/2020-Present — **Director of the Biostatistics area of the Center for Biostatistics, Epidemiology and Public Health (University Department Center)**
Department of Clinical and Biological Sciences, University of Torino, Torino (Italy)

01/10/2012–30/06/2020 — **Researcher**
Department of Clinical and Biological Sciences, University of Torino, Torino (Italy)

01/01/2007–30/09/2012 — **Postdoctoral fellow**
Department of Public Health and Microbiology, University of Torino, Torino (Italy)

01/01/2005–31/12/2006 — **Postdoctoral fellow**
Epidemiological Unit of the Regional Health Service, Piedmont Region, Grugliasco (Torino) (Italy)

01/08/2004–31/12/2004 — **Postdoctoral fellow**
Department of Statistics, University of Firenze, Firenze (Italy)

EDUCATION AND TRAINING

08/07/2004 — **PhD in Applied Statistics**
University of Firenze, Firenze (Italy)

01/03/2003–01/12/2003 — **Scholarship at the Department of Statistics**
University of Oxford, Oxford (United Kingdom)

01/07/1999 — **BS in Mathematics**
University of Torino, Torino (Italy)

PERSONAL SKILLS

Mother tongue(s) — Italian

Other language(s)

UNDERSTANDING	SPEAKING	WRITING

	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
Spanish	B2	C2	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Other positions

Since January 2023 Biostatistician on the Ethics Committee of the IRCSS Candiolo (TO)

Since 2022 Biostatistician on the World Athletics Independent Research Ethics Committee

Since 2022 Biostatistician at the Ewing Sarcoma data dictionary Effort carried out by the Harmonization International Bone Sarcoma Consortium

Since 2021 Statistical Consultant of the Rehabilitation Working Group of the Italian Association of Pediatric Hematology and Oncology

Since 2021 Biostatistician at the Independent Data Safety Monitoring Committee (IDMSC) of the RAFTING trial (NCT number: NCT04866654).

Since 2020 Director of Biostatistics area of the Center for Biostatistics, Epidemiology and Public Health at the Department

Since 2019 Chair of the Working group "Machine Learning in Clinical Research" of the Italian Society of Medical Statistics and Clinical Epidemiology

Since 2018 Director of the Master in Advance Biostatistics for Clinical Research at the University of Padova

Since 2017 Faculty member of the PhD School in Translational Medicine G.B. Morgagni at the University of Padova

Job-related skills

I have an extensive experience of research in methodology for Clinical trials and observational studies. I was PI of the project **Rescuing Clinical Trials terminated prematurely for poor accrual** funded by the University of Torino and carried out in collaboration with the INSERM U872, Centre de Recherche des Cordeliers, Université Paris 5, Université Paris 6. Within the project I organized and taught the course on "**Bayesian Sample Sizing in Clinical Trials with Practical Applications**" for the VIII National Congress of the Italian Society of Medical Statistics and Clinical Epidemiology (SISMEC). In 2018 I presented the work "**Objective inference to adjust for baseline covariates in the analysis of RCTs for increasing efficiency**" at the 39th Society of Clinical Trials Annual Meeting, in May 2018, Portland, OR, US.

I was invited speaker at the Italian Society of Medical Statistics and Clinical Epidemiology Congress. Napoli, October 2022, with a talk on "**Efficient clinical trials in healthcare emergencies: advantages and challenges in their design**". I was invited speaker at the Uncertainty in the Science Workshop at the Polytechnic University of Milan in June 2022 with a talk on "**Prediction of treatment outcome and modelling uncertainty in clinical trials under a personalized medicine perspective**".

Since 2021 I am Biostatistician at the Independent Data Safety Monitoring Committee (IDMSC) of the RAFTING trial (NCT number: NCT04866654).

Following, the list of most recent protocols in which I have the role of leading statistician:

1. Mirror Neuron System and Rehabilitation: action observation can improve balance control in piediatric patients subjec to allogenic transplantation of hemopoietic stem cells? (2022)

2. Psycho-emotional impact of preoperative counseling in the context of cervicocarcinoma screening programs (2021)

3. A Study Evaluating the Safety, Tolerability, Pharmacokinetics, and Preliminary Activity of Iadademstat used alone and in combination with Idasanutlin or Ribociclib in the Treatment of Pediatric and Young Adult Patients with Relapsed/Refractory Solid Tumors (2021)

4. Obinutuzumab treatment for IgM-related polyneuropathies: a monocentric trial for interdisciplinary clinico-molecular characterization and evaluation of response (2022)

5. Fludarabine and Melphalan in combination with total marrow / lymphoid irradiation (TMI / TLI) radiotherapy in patients who are candidates for allogeneic stem cell transplantation with

reduced intensity conditioning (2021)

6. Cytorective surgery and pressurized intraperitoneal aerosol chemotherapy: feasibility and safety of the combined approach: PLUS Study (2021)

7. Maintenance therapy with Qarziba for patients in relapsed/refractory high-grade osteosarcoma after induction multimodal therapy – a Phase II multi-center study (2021)

8. Validation of the Italian version of the lymphedema functioning, disability and health questionnaire for upper limb lymphedema (2020)

9. Observational Study in Adult Patients with Chronic Myeloid Leukemia who discontinue Tyrosine Kinase Inhibitors in Italy (2020)

10. Retrospective-Prospective Observational Study on the Rehabilitation Evaluation of Pediatric Patients suffering from oncological pathology (2018)

11. A Phase I, dose-escalation study of Cisplatin applied as Pressurized Intraperitoneal Aerosol Chemotherapy (PIPAC) for the treatment of peritoneal carcinomatosis (2017)

I organized the 1st Bayesian Day for Clinical Research Workshop with the following invited speakers: Beat Neuenschwander (Novartis), Gaëlle Saint-Hilary (Servier), Fulvio De Santis (Università La Sapienza), Fabio Rigat (GSK Pharmaceuticals R&D). Since 2015 I am member of the Ehtics Committee working group of the Italian Society of Medical Statistics and Clinical Epidemiology and I have participated to the survey on competencies of biostatisticians serving in Italian Ethics Committee (2018).

I have methodological background and experience in applying biostatistical and epidemiological methodologies.

As member of the **Health Behaviour in School-aged Children (HBSC)**, I am currently working on surveys on health related and wellbeing topics. HBSC Study is a cross-national survey on wellbeing and health behaviours in young people and it is conducted every four years in 44 countries and regions across Europe and North America in collaboration with WHO Regional Office for Europe. In particular, I am involved on development of the sampling design on the analysis of the data collected by producing tables and graphically displayed indicators as well as on the report draft.

As responsible of the unit based at the University of Torino for the project-Tender EFSA **Machine Learning techniques applied in risk assessment related to food safety** (2015-2017-OC/EFSA/AMU/2014/02) I am currently working on quantitative risk assessment applied to the field of food safety and toxicology.

I have extensively worked in the field of risk assessment/survey data analysis before, as team member and scientific leader of the following projects:

▪ European Project **Surveillance System on Suffocation Injuries due to Foreign Bodies** founded by the European Commission's Directorate General for Health and Consumer Policy (DGSANCO)

▪ Project of Great Relevance Italy-Argentina founded by the Italian of Ministry Affairs **Establishment of an Italy-Argentina joint system of risk assessment to control foreign body injuries in children**

I am currently Principal Investigator of the project **TrustAlert,** funded by Fondazione Compagnia San Paolo and Cassa Depositi e Prestiti, aimed at developing a pandemic preparedness alert system based on Artificial Intelligence.

I have developed skills in analysing data from registry and performing quantitative risk assessment using both standard statistical models and machine learning approaches. In particular, I have worked on defining the concept of risk profiles for consumer products, which has demanded developing methodologies of Risk Assessment based on classification trees (Berchialla, Bellussi et al. 2012) and Bayesian networks (Berchialla, Scarinzi et al. 2010). At the same time I have worked implementing risk estimation engines as web-based service relying both on non-machine learning models (Berchialla, Stancu et al. 2008) and Bayesian Networks (Berchialla, Gangemi et al. 2014) and developing recommendation guidelines from analysis of registry data.

ADDITIONAL INFORMATION

Publications

Selected papers

▪ Vaira M, Robella M, Guaglio M, Berchialla P, Sommariva A, Valle M, Pasqual EM, Roviello F, Framarini M, Fiorentini G, Sammartino P, Ilari Civit A, Di Giorgio A, Ansaloni L, Deraco M. Diagnostic and Therapeutic Algorithm for Appendiceal Tumors and Pseudomyxoma Peritonei: A

Consensus of the Peritoneal Malignancies Oncoteam of the Italian Society of Surgical Oncology (SICO). Cancers (Basel). 2023 Jan 24;15(3):728. doi: 10.3390/cancers15030728

▪ Robella M, Tonello M, Berchialla P, Sciannameo V, Ilari Civit AM, Sommariva A, Sassaroli C, Di Giorgio A, Gelmini R, Ghirardi V, Roviello F, Carboni F, Lippolis PV, Kusamura S, Vaira M. Enhanced Recovery after Surgery (ERAS) Program for Patients with Peritoneal Surface Malignancies Undergoing Cytoreductive Surgery with or without HIPEC: A Systematic Review and a Meta-Analysis. Cancers (Basel). 2023 Jan 17;15(3):570. doi: 10.3390/cancers15030570

▪ Artusi, C.A., E. Montanaro, R. Erro, N. Margraf, C. Geroin, A. Pilotto, L. Magistrelli, et al. 2022. "Visuospatial Deficits Are Associated with Pisa Syndrome and Not Camptocormia in Parkinson's Disease." Movement Disorders Clinical Practice. https://doi.org/10.1002/mdc3.13605.

▪ Azzolina, D., P. Berchialla, D. Gregori, and I. Baldi. 2021. "Prior Elicitation for Use in Clinical Trial Design and Analysis: A Literature Review." International Journal of Environmental Research and Public Health 18 (4): 1–21. https://doi.org/10.3390/ijerph18041833.

▪ Azzolina, D., P. Berchialla, S. Bressan, L. Da Dalt, D. Gregori, and I. Baldi. 2022. "A Bayesian Sample Size Estimation Procedure Based on a B-Splines Semiparametric Elicitation Method." International Journal of Environmental Research and Public Health 19 (21). https://doi.org/10.3390/ijerph192114245.

▪ Baldi, I., D. Azzolina, N. Soriani, B. Barbetta, P. Vaghi, G. Giacovelli, P. Berchialla, and D. Gregori. 2020. "Overrunning in Clinical Trials: Some Thoughts from a Methodological Review." Trials 21 (1). https://doi.org/10.1186/s13063-020-04526-5.

▪ Baldi, I., D. Gregori, A. Desideri, and P. Berchialla. 2017. "Accrual Monitoring in Cardiovascular Trials." Open Heart 4 (2). https://doi.org/10.1136/openhrt-2017-000720.

▪ Baldi, I., C. Lanera, P. Berchialla, and D. Gregori. 2017. "Early Termination of Cardiovascular Trials as a Consequence of Poor Accrual: Analysis of ClinicalTrials.Gov 2006-2015." BMJ Open 7 (6). https://doi.org/10.1136/bmjopen-2016-013482.

▪ Baldi, I., D. Azzolina, P. Berchialla, D. Gregori, L. Scotti, and G. Corrao. 2017. "Comorbidity-Adjusted Relative Survival in Newly Hospitalized Heart Failure Patients: A Population-Based Study." International Journal of Cardiology 243: 385–88. https://doi.org/10.1016/j.ijcard.2017.05.080.

▪ Baldi, I., D. Azzolina, D. Chiffi, T. Barrella, M. Martinato, P. Berchialla, D. Gregori, and NEBICE (Network of Biostatisticians in the Ethics Committee) Working Group. 2018. "A Survey on Biostatisticians Serving in the Italian Ethics Committees." Epidemiology Biostatistics and Public Health 15 (3). https://doi.org/10.2427/12939.

▪ Basile, V., S. Puglisi, B. Altieri, L. Canu, R. Libè, F. Ceccato, F. Beuschlein, et al. 2021. "What Is the Optimal Duration of Adjuvant Mitotane Therapy in Adrenocortical Carcinoma? An Unanswered Question." Journal of Personalized Medicine 11 (4). https://doi.org/10.3390/jpm11040269.

▪ Berchialla, P., I. Baldi, V. Notaro, S. Barone-Monfrin, F. Bassi, and D. Gregori. 2009. "Flexibility of Bayesian Generalized Linear Mixed Models for Oral Health Research." Statistics in Medicine 28 (28): 3509–22. https://doi.org/10.1002/sim.3648.

▪ Berchialla, P., L. Bellussi, A. Castella, S. Snidero, D. Passali, and D. Gregori. 2012. "Modeling the Risk: Innovative Approaches to Understand and Quantify the Risk of Severe FB Injury." International Journal of Pediatric Otorhinolaryngology 76 (SUPPL. 1): S33–38. https://doi.org/10.1016/j.ijporl.2012.02.007.

▪ Berchialla, P., D. Chiffi, G. Valente, and A. Voutilainen. 2021. "The Power of Meta-Analysis: A Challenge for Evidence-Based Medicine." European Journal for Philosophy of Science 11 (1). https://doi.org/10.1007/s13194-020-00321-w.

▪ Berchialla, P., F. Foltran, R. Bigi, and D. Gregori. 2012. "Integrating Stress-Related Ventricular Functional and Angiographic Data in Preventive Cardiology: A Unified Approach Implementing a Bayesian Network." Journal of Evaluation in Clinical Practice 18 (3): 637–43. https://doi.org/10.1111/j.1365-2753.2011.01651.x.

▪ Berchialla, P., F. Foltran, A. Di Lenarda, G. Barbati, L. Franchin, L. Salvatore, and D. Gregori. 2010. "Hospitalization Rate as a Proxy for the Quality of Life Evaluation: The Case of Dilated Cardiomiopathy." Journal of Preventive Medicine and Hygiene 51 (4): 152–56. https://www.scopus.com/inward/record.uri?eid=2-s2.0-79953882551&partnerID=40&md5=01bd5c1a63fd18a014b0c3ab08d54b4e.

▪ Berchialla, P., F. Foltran, and D. Gregori. 2013. "Naïve Bayes Classifiers with Feature Selection to

Predict Hospitalization and Complications Due to Objects Swallowing and Ingestion among European Children." Safety Science 51 (1): 1–5. https://doi.org/10.1016/j.ssci.2012.05.021.

- Berchialla, P., E.N. Gangemi, F. Foltran, A. Haxhiaj, A. Buja, F. Lazzarato, M. Stella, and D. Gregori. 2014. "Predicting Severity of Pathological Scarring Due to Burn Injuries: A Clinical Decision Making Tool Using Bayesian Networks." International Wound Journal 11 (3): 246–52. https://doi.org/10.1111/j.1742-481X.2012.01080.x.

- Berchialla, P., M.T. Giraudo, C. Fava, A. Ricotti, G. Saglio, G. Lorenzoni, V. Sciannameo, et al. 2021. "To Swab or Not to Swab? The Lesson Learned in Italy in the Early Stage of the COVID-19 Pandemic." Applied Sciences (Switzerland) 11 (9). https://doi.org/10.3390/app11094042.

- Berchialla, P., D. Gregori, and I. Baldi. 2019. "The Role of Randomization in Bayesian and Frequentist Design of Clinical Trial." Topoi 38 (2): 469–75. https://doi.org/10.1007/s11245-018-9542-8.

- Berchialla, P., D. Gregori, F. Brunello, A. Veltri, M. Petrinco, and E. Pagano. 2009. "Bayesian Approach to the Cost-Effectiveness Evaluation of Healthcare Technologies [L'approccio Bayesiano All'analisi Di Costo-Efficacia Degli Interventi Sanitari]." Epidemiologia e Prevenzione 33 (3): 123–28.

- Berchialla, P., C. Lanera, V. Sciannameo, D. Gregori, and I. Baldi. 2022. "Prediction of Treatment Outcome in Clinical Trials under a Personalized Medicine Perspective." Scientific Reports 12 (1). https://doi.org/10.1038/s41598-022-07801-4.

- Berchialla, P., G. Scaioli, S. Passi, and M.M. Gianino. 2014. "Adverse Events in Hospitalized Paediatric Patients: A Systematic Review and a Meta-Regression Analysis." Journal of Evaluation in Clinical Practice 20 (5): 551–58. https://doi.org/10.1111/jep.12141.

- Berchialla, P., C. Scarinzi, S. Snidero, and D. Gregori. 2010. "Adaptive Bayesian Networks for Quantitative Risk Assessment of Foreign Body Injuries in Children." Journal of Risk Research 13 (3): 367–77. https://doi.org/10.1080/13658810903233419.

- Berchialla, P., C. Scarinzi, S. Snidero, D. Gregori, A.B. Lawson, D. Lee, and Y. MacNab. 2016. "Comparing Models for Quantitative Risk Assessment: An Application to the European Registry of Foreign Body Injuries in Children." Statistical Methods in Medical Research 25 (4): 1244–59. https://doi.org/10.1177/0962280213476167.

- Berchialla, P., C. Scarinzi, S. Snidero, Y. Rahim, and D. Gregori. 2012. "Information Extraction Approaches to Unconventional Data Sources for 'Injury Surveillance System': The Case of Newspapers Clippings." Journal of Medical Systems 36 (2): 475–81. https://doi.org/10.1007/s10916-010-9492-1.

- Berchialla, P., V. Sciannameo, S. Urru, C. Lanera, D. Azzolina, D. Gregori, and I. Baldi. 2021. "Adjustment for Baseline Covariates to Increase Efficiency in RCTs with Binary Endpoint: A Comparison of Bayesian and Frequentist Approaches." International Journal of Environmental Research and Public Health 18 (15). https://doi.org/10.3390/ijerph18157758.

- Berchialla, P., S. Snidero, A. Stancu, C. Scarinzi, R. Corradetti, and D. Gregori. 2012. "Understanding the Epidemiology of Foreign Body Injuries in Children Using a Data-Driven Bayesian Network." Journal of Applied Statistics 39 (4): 867–74. https://doi.org/10.1080/02664763.2011.623156.

- Berchialla, P., S. Snidero, A. Stancu, C. Scarinzi, R. Corradetti, D. Gregori, A. Klaus, et al. 2007. "Predicting Severity of Foreign Body Injuries in Children in Upper Airways: An Approach Based on Regression Trees." Risk Analysis 27 (5): 1255–63. https://doi.org/10.1111/j.1539-6924.2007.00971.x.

- Berchialla, P., A. Stancu, C. Scarinzi, S. Snidero, R. Corradetti, and D. Gregori. 2008. "Web-Based Tool for Injury Risk Assessment of Foreign Body Injuries in Children." Journal of Biomedical Informatics 41 (4): 544–56. https://doi.org/10.1016/j.jbi.2008.01.003.

- Berchialla, P., S. Zohar, and I. Baldi. 2019. "Bayesian Sample Size Determination for Phase IIA Clinical Trials Using Historical Data and Semi-Parametric Prior's Elicitation." Pharmaceutical Statistics 18 (2): 198–211. https://doi.org/10.1002/pst.1914.

- Bistolfi, A., F. Giustra, F. Bosco, C. Faccenda, M. Viotto, L. Sabatini, P. Berchialla, V. Sciannameo, E. Graziano, and A. Massè. 2022. "Comparable Results between Crosslinked Polyethylene and Conventional Ultra-High Molecular Weight Polyethylene Implanted in Total Knee Arthroplasty: Systematic Review and Meta-Analysis of Randomised Clinical Trials." Knee Surgery, Sports Traumatology, Arthroscopy 30 (9): 3120–30. https://doi.org/10.1007/s00167-022-06879-7.

▪ Bistolfi, A., G.-C. Lee, D. Deledda, F. Rosso, P. Berchialla, M. Crova, and G. Massazza. 2014. "NexGen® LPS Mobile Bearing Total Knee Arthroplasty: 10-Year Results." Knee Surgery, Sports Traumatology, Arthroscopy 22 (8): 1786–92. https://doi.org/10.1007/s00167-014-3019-0.

▪ Bottigliengo, D., I. Baldi, C. Lanera, G. Lorenzoni, J. Bejko, T. Bottio, V. Tarzia, et al. 2021. "Oversampling and Replacement Strategies in Propensity Score Matching: A Critical Review Focused on Small Sample Size in Clinical Settings." BMC Medical Research Methodology 21 (1). https://doi.org/10.1186/s12874-021-01454-z.

▪ Bottigliengo, D., P. Berchialla, C. Lanera, D. Azzolina, G. Lorenzoni, M. Martinato, D. Giachino, I. Baldi, and D. Gregori. 2019. "The Role of Genetic Factors in Characterizing Extra-Intestinal Manifestations in Crohn's Disease Patients: Are Bayesian Machine Learning Methods Improving Outcome Predictions?" Journal of Clinical Medicine 8 (6). https://doi.org/10.3390/jcm8060865.

▪ Campagna, S., M. Clari, C. Delfino, M. Rolfo, A. Rizzo, P. Berchialla, and A. Ferrero. 2020. "Impact of a Preoperative Video-Based Educational Intervention on Postoperative Outcomes in Elective Major Abdominal Surgery: A Randomized Controlled Trial." Journal of Gastrointestinal Surgery 24 (10): 2295–97. https://doi.org/10.1007/s11605-020-04667-7.

▪ Carli, V., N.G. Petros, G. Hadlaczky, T. Vitcheva, P. Berchialla, S. Bianchi, S. Carletto, et al. 2022. "The NEVERMIND E-Health System in the Treatment of Depressive Symptoms among Patients with Severe Somatic Conditions: A Multicentre, Pragmatic Randomised Controlled Trial." EClinicalMedicine 48. https://doi.org/10.1016/j.eclinm.2022.101423.

▪ Calabrese, A., V. Basile, S. Puglisi, P. Perotti, A. Pia, L. Saba, P. Berchialla, et al. 2019. "Adjuvant Mitotane Therapy Is Beneficial in Non-Metastatic Adrenocortical Carcinoma at High Risk of Recurrence." European Journal of Endocrinology 180 (6): 387–96. https://doi.org/10.1530/EJE-18-0923.

▪ Canu, L., S. Puglisi, P. Berchialla, G. De Filpo, F. Brignardello, F. Schiavi, A.M. Ferrara, et al. 2021. "A Multicenter Epidemiological Study on Second Malignancy in Non-Syndromic Pheochromocytoma/Paraganglioma Patients in Italy." Cancers 13 (22). https://doi.org/10.3390/cancers13225831.

▪ Cenna, R., M. Basiricò, P. Berchialla, N. Bertorello, C. Cagnazzo, V. Ceolin, E. De Luna, C. Nolis, F. Resente, and F. Fagioli. 2022. "Off-Label and Compassionate Use of Targeted Anticancer Therapies: The Experience of an Italian Pediatric Cancer Center." Pediatric Blood and Cancer. https://doi.org/10.1002/pbc.30148.

▪ Charrier, L., P. Berchialla, P. Dalmasso, A. Borraccino, P. Lemma, and F. Cavallo. 2019. "Cigarette Smoking and Multiple Health Risk Behaviors: A Latent Class Regression Model to Identify a Profile of Young Adolescents." Risk Analysis 39 (8): 1771–82. https://doi.org/10.1111/risa.13297.

▪ Chauvie, S., A. De Maggi, I. Baralis, F. Dalmasso, P. Berchialla, R. Priotto, P. Violino, et al. 2020. "Artificial Intelligence and Radiomics Enhance the Positive Predictive Value of Digital Chest Tomosynthesis for Lung Cancer Detection within SOS Clinical Trial." European Radiology 30 (7): 4134–40. https://doi.org/10.1007/s00330-020-06783-z.

▪ Chiffi, D., P. Berchialla, and D. Gregori. 2017. "An Epistemological View on Risk Exposure Assessment: A Case Study." Open Nursing Journal 11: 203–10. https://doi.org/10.2174/1874434601711010203.

▪ De Simone, M., M. Vaira, M. Argenziano, P. Berchialla, A. Pisacane, A. Cinquegrana, R. Cavalli, A. Borsano, and M. Robella. 2020. "Pressurized Intraperitoneal Aerosol Chemotherapy (PIPAC) with Oxaliplatin, Cisplatin, and Doxorubicin in Patients with Peritoneal Carcinomatosis: An Open-Label, Single-Arm, Phase II Clinical Trial." Biomedicines 8 (5). https://doi.org/10.3390/BIOMEDICINES8050102.

▪ Fabbri, M., M. Zibetti, G. Calandra-Buonaura, M. Contin, L. Sambati, S. Mohamed, A. Romagnolo, et al. 2020. "Levodopa/Carbidopa Intestinal Gel Long-Term Outcome in Parkinson's Disease: Focus on Dyskinesia." Movement Disorders Clinical Practice 7 (8): 930–39. https://doi.org/10.1002/mdc3.13068.

▪ Fabbri, M., M. Zibetti, M.G. Rizzone, G. Giannini, L. Borellini, A. Stefani, F. Bove, et al. 2020. "Should We Consider Deep Brain Stimulation Discontinuation in Late-Stage Parkinson's Disease?" Movement Disorders 35 (8): 1379–87. https://doi.org/10.1002/mds.28091.

▪ Fadini, G.P., V. Sciannameo, I. Franzetti, D. Bottigliengo, P. D'Angelo, C. Vinci, P. Berchialla, et al. 2019. "Similar Effectiveness of Dapagliflozin and GLP-1 Receptor Agonists Concerning Combined Endpoints in Routine Clinical Practice: A Multicentre Retrospective Study." Diabetes, Obesity and

Metabolism 21 (8): 1886–94. https://doi.org/10.1111/dom.13747.

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Book chapters

- Gregori D, Berchialla P Quality of Electronic Medical Records In: Statistical Methods in Healthcare, pp: 456-480. Eds: Faltin F, Kenett R, Ruggeri F. Wiley&Sons Ltd, Chichester, West Sussex. 2012

- Gregori D, Foltran F, Berchialla P, The Susy Safe Working Group. The Susy Safe Registry: data and evidences In: The Susy Safe Registry Data and Recommendations The Susy Safe Working Group 2013 Franco Angeli Ed Milano, Italy

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- Berchialla P, Gregori D The risk engine In: The Susy Safe Project Final Report 2005-2007 (eds) The Susy Safe Working Group 2009 Franco Angeli Ed Milano, Italy

Projects
- 2023 – present: PI of the project **trustAlert** funded by Compagnia San Paolo and Fondazione CDP (research consortium: University of Torino, Fondazione Bruno Kessler, Fondazione Links, Innovo s.r.l, University of Piemonte Orientale, ASL-CN2, Ospedale Cottolengo)

- 2022 – present: PI of the project **Incorporating Patient Preference Studies into clinical research and decision models** funded by the University of Torino

- 2008 – present: member of the **Health Behaviours School-aged Children (HBSC) Study.** HBSC is a cross-national survey on wellbeing and health behaviours in young people and it is conducted every four years in 44 countries and regions across Europe and North America in collaboration with WHO Regional Office for Europe. In Italy the Survey is carried out in collaboration with the Italian National Institute of Health

- In 2020 I was involved in the survey **Impact of the COVID-19 lockdown on psychological health and nutritional habits in Italy: #PRESTOinsieme study** in collaboration with the Unit of Biostatistics and Epidemiology of the University of Padova and the Italian National Institute of Health

- 2017 – 2019: PI of the project **Rescuing Clinical Trials terminated prematurely for poor accrual** funded by the University of Torino

- 2015 – 2017: unit responsible of the Project A**ssistance to the Assessment Methodology Unit for Statistical Analyses, data management and ad hoc consultation upon request** (Tender EFSA call OC/EFSA/AMU/2015/0)

- 2020 – 2021: unit responsible of the Project **Space in response to COVID-19 outbreak (EPICO19)** funded by European Space Agency

- 2014 – 2017: unit responsible for the project **Machine Learning techniques applied in risk assessment related to food safety** (Tender EFSA OC/EFSA/AMU/2014/02)

- 2013 – 2015: member of the Torino Unit of the FIRB project **Statistical modeling of environmental phenomena: pollution, meteorology, health and their interactions** (Principal Investigator: Dr Francesca Bruno, University of Bologna

- 2009 – 2011: member of the Project of Great Relevance Italy-Argentina founded by the Italian of Ministry Affairs **Establishment of an Italy-Argentina joint system of risk assessment to control foreign body injuries in children** (Italian Principal Investigator: Prof. Dario Gregori)

- 2005 – 2009: member of European Project **Surveillance System on Suffocation Injuries due to Foreign Bodies** founded by the European Commission's Directorate General for Health and Consumer Policy (DGSANCO) (Principal Investigator: Prof. Dario Gregori)

Conferences   **Selected conference presentations**

- AI, Network Medicine and Machine Learning: novel approach for precision medicine? XXIX Italian Congress of the Society of Diabetology, Rimini, October 2022. Invited speaker

- Efficient clinical trials in healthcare emergencies: advantages and challenges in their design. Italian Society of Medical Statistics and Clinical Epidemiology Congress. Napoli, October 2022. Invited speaker

- Prediction of treatment outcome and modelling uncertainty in clinical trials under a personalized medicine perspective. Uncertainty in the Sciences Workshop (Polytechnic University of Milan) June 2022. Invited speaker

- Big data and artificial intelligence in COVID-19 research, Winter School PhD Medical Student, University of Padova, May 2021. Invited speaker

- Can you believe the resuls of a meta-analysis? The heterogeneity, the power and the case of small meta-analyses. Invited speaker at the Scientific Rationality & Strategic Interaction Workshop, Bocconi University, November 2019. Invited speaker

- Determinant of risk: hazard, exposure and vulnerability. Seminar at the Department of Architecture and Urban Studies, Politecnico of Milano, April 2019. Invited speaker

- Semi-parametric Bayesian Models for Longitudinal Data. VIII National Congress of the Italian Society of Medical Statistics and Clinical Epidemiology (Torino, September 2015). Invited speaker

- Objective inference to adjust for baseline covariates in the analysis of RCTs for increasing efficiency. 39th Society of Clinical Trials Annual Meeting, may 2018 Portland, OR, US

- Spatial Modeling for air pollution epidemiology: hospital admission risk for cardio-respiratory diseases in Torino province. 46th Italian Statistical Society Meeting. June 2014, Cagliari, Italy

- Comparing Adaptive Bayesian Network, Artificial Neural Networks, Classification Trees and Classical Logistic Models in Quantitative Risk Assessment: the Case Study of Foreign Body Injuries in Children Society for Risk Analysis-Europe, 28 June - 1 July, 2009, Karlstad, Sweden

- Web-based surveillance systems as an effective tool for risk assessment and for fostering product safety: the Risk Estimation Engine of Susy Safe Safe Kids Worldwide Child Injury Prevention Conference in Washington, DC Oct 15 - 18, 2008

- A Bayesian Network-Driven Approach for Quantitative Risk Assessment of Foreign Body Injuries in Children JSM 2007 pp: 303 (383) 29 luglio- 2 agosto 2007,Salt Lake City, US

- Epidemiology of Foreign Body Injuries in Children using a Data-Driven Bayesian Network 48th Annual Meeting of the European Society for Paediatric Research, 6 – 8 October, 2007, Prague, Czech Republic

- Bayesian Networks for pathological scarring due to burn injuries ROeS Seminar (Young Biostatistician session) 9-13 September 2007, Bern, Switzerland

- A comparison of Bayesian Networks and MCMC techniques for quantitative risk assessment Joint Statistical Meeting, 6-10 August 2006, Seattle, US

- Total Quality Test to Overcome Workers's Inadequacies: An Application in an Italian Hospital. International Biometric Society Conference July 2006, Montreal, Canada

- Bayesian Networks for quantitative risk assessment of foreign body injuries in children 2nd International Seminar on Injury Research Methods 6 - 7 April 2006, Cape Town, South Africa

Seminars and courses

- The Impact of Cutting-Edge Techniques on the near Future of Biostatistics and Healthcare. Seminar at the Department of Cardiac, Thoracic, Vascular Sciences and Public Health, University of Padova, April 2023

- Lead of the course Bayesian modelling for biomedical data at the Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta, Torino, July 2017

- Lead of the course Bayesian Clinical Trials at the VIII National Congress of the Italian Society of Medical Statistics and Clinical Epidemiology (Torino, September 2015)

- Sweave Course, Sixth Torino UseR Group meeting, 21 November 2013, Faculty of Economics, University of Torino

	▪ Showcase of R in biostatistics Second Torino UseR Group meeting, 17 November 2011, Faculty of Economics, University of Torino
	▪ Final Workshop of the European Project Surveillance System on Suffocation Injuries due to Foreign Bodies. Presentation of the Working Group guideline (Bruxelles, March 2010)
Honours and awards	▪ Travel Award from the Section on Risk Analysis – American Statistical Association for the paper "A Bayesian Network-Driven Approach for Quantitative Risk Assessment of Foreign Body Injuries in Children" presented to the Joint Statistical Meeting 2007, Salt Lake City, US.
	▪ Best quantitative predictive (R-) model – Stats Under the Stars competition 2015/09/08-09
Memberships	▪ Member of the American Statistical Association (ASA)
	▪ Member of the Italian Statistical Society (SIS)
	▪ Member of the Italian Society of Medical Statistics and Clinical Epidemiology (SISMEC)
	▪ Member of the International Biometric Society - Italian Region
	▪ Member of the Organizing Committee of the Joint Meeting METMA VII (the Seventh International Workshop on Spatio-Temporal Modelling) and GRASPA14 (the 2014 meeting of the Research Group for Statistical Applications to Environmental Problems
	▪ Member of the Organizing Committee of the VIII National Congress of the Italian Society of Medical Statistics andClinical Epidemiology
	▪ Reviewer of BMC Health Services Research, BMC Medical Research Methodology, Acta Diabetologica, Nutrition Review, Scientific Reports, Statistics in Medicine, the Journal of Biomedical Informatics, Journal of Applied Statistics, Journal of Evaluation in Clinical Practice, Computer Biology and Medicine, Biometrical Journal, Preventive Medicine, Ecology of Food and Nutrition, International Journal of Environmental Health Research
	▪ Reviewer of research proposals for the Medical Research Counting (South Africa) and for American Medical Informatics Association Annual Symposium.
Bibliometrics	▪ H-index: 31
	▪ Total number of citations: 3369
	▪ Number of papers: 255
	▫ Number of papers in the last 10 years: 182