

PERSONAL INFORMATION

Family name, First name: Quantin Catherine

Researcher unique identifier(s): <https://orcid.org/0000-0001-5134-9411>

Date of birth: March 29, 1961

Nationality: French

EDUCATION

- 1992, Ph. D: University Paris XI (Biostatistics), France

- 1997, Ph. D: University of Burgundy (Analysis and Economic Policy), France

- 1989, M. D. Medicine, University of Burgundy, France

- 1987, B.S. Informatics, University of Burgundy, France

CURRENT POSITIONS

1998–present Head of Medical informatics and biostatistics Department at the Dijon University Hospital

1998–present Professor of Biostatistics and Medical Informatics – senior fellow (classe exceptionnelle) –

University of Burgundy, and Member of the Centre for Epidemiology and Population Health (CESP), Inserm, University of Paris-Saclay.

PREVIOUS POSITIONS

2019-2021 Visiting professor at the University of Liège.

1995–1998 Assistant professor of Biostatistics and Medical Informatics – University of Burgundy

FELLOWSHIPS AND AWARDS: 2013- Received a National Order Academic Award

ADDITIONAL RESPONSIBILITIES

International:

- 2020-present: Chair of WG2 on statistical analyses of the *Cost European Action (CA19106)* on Child Abuse
- • 2012-2016: Chair of the Education Committee of the *International Society for Clinical Biostatistics (ISCB)*
- 2014-present: Member of the *International Statistical Institute (ISI)*
- 1999-2014 Member of WG4 on security of the *International Medical Informatics Association (IMIA)*.
- 1994-1998: General Secretary of the *French Speaking Epidemiologists Association (ADELF)*

National:

2004 to 2013: Alternatively General Secretary and Chairman of the *French Association of Professors in Biostatistics and Medical Informatics (CIMES)*

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

I have supervised 3 Postdocs, 25 doctoral theses in the sciences, and 36 master's theses.

TEACHING ACTIVITIES (University of Burgundy, France)

2003-present Head of the Master's program in Public health

1998-present Director of studies in Biostatistics, Medical Informatics and Epidemiology.

ORGANISATION OF SCIENTIFIC MEETINGS

International:

Chair of the Scientific Committee (SC), French-Speaking Epidemiologists Association ADELFF conference every 2 years until 2022).

Vice-chair of the Local Organizing Committee (LOC) and member of the SC of the ISCB (International Society for Clinical Biostatistics) conference (2010).

Member of the LOC of the International Medical Informatics Association (IMIA) MEDINFO conference (2019).

National:

Chair the SC of EMOIS Conference (2013 to 2019 every two years).

Chair of the SC of the Health Care Management and Economics Journal conference (2012-2018, early).

Co-chair of the SC of the 3rd conference on Connected Objects and Health Applications, (2016 and 2017).

Member of the LOC of the French Statistical Society (SFDS) 8th conference on surveys (2014).

Co-organizer of the SFDS seminar on secure matching (every year for 10 years until 2013).

INSTITUTIONAL RESPONSIBILITIES

International

- Selection committees: McGill University, UCL, US Harkness Fellowships

National

National qualification commissions for:

- University professors in biostatistics and medical informatics (*National University Board of Governors* 2003-2010 then 2015-2021),
- Public health researchers (*National Institute of Health and Medical Research - Inserm*, 2002-2006)
- Public health physicians (*National College of Physicians*, 2012-présent).

Scientific boards for the Ministry of Health, and for other national agencies:

Centre for Palliative and End-of-Life Care (2021-present);
Agency for the management of hospitalization data (ATIH, 2015-present);
Institute for Research in Health Economics (IRDES, 2014-present);
French Institute of Health Data (INDS, 2013-2019);
Institute for Public Health (Santé Publique France, 2013-2016);
Agency for the Safety of Medicines and Health Products (ANSM, WG pharmaco-epidemiology, 2013-2016);
Secure Access Data Centre (CASD, 2012-present);
Agency for Hospital Performance (ANAP, 2012-present).
External Advisory Board of the HealthData@EU Pilot project (2023-present)

Regional: Member of the Academic Council of the University of Burgundy/Franche-Comté (2020-present).

REVIEWING ACTIVITIES

- **Journals:** high-ranking generalist journals (The Lancet, JAMA, BMJ), journals specializing in biostatistics (Biostatistics, Statistics in Medicine), informatics (JAMIA, IJMI, Methods of Information in Medicine) and many clinical journals.

- **Grants:** National Research Agency (ANR), Ministry of Health (DGOS/DREES), Inserm, Institute for Public Health Research (IRESP), HDH (Health Data Hub), French Institute for Cancer (INCA), Cancer Research Foundation (ARC),...

MEMBERSHIPS OF SCIENTIFIC NETWORKS

International:

COST Action 19106 "Multi sectoral responses to child abuse and neglect in Europe: Incidence and trends" (2020-present), STRATOS Initiative (STRengthening Analytical Thinking for Observational Studies), experts in biostatistics and epidemiology (2013-present)
Member of ISPCAN (International Society for the Prevention of Child Abuse and Neglect)

National:

Founding member of the network for the use of national health data (Redsiam, 2012-present)
Chair of the WG on Mental Health Problems

MAJOR COLLABORATIONS

Mc Gill Montreal (Canada): Pr Abrahamowicz (Professor of Epidemiology and Biostatistics)

New York University (USA): Pr Rodwin (Professor of Health Policy and Management)

University of Lausanne (Switzerland): Pr Paccaud (Professor of Public Health)

St George's University of London (United Kingdom): Pr Thilaganathan (Professor in Obstetric and Gynecology)

Johns Hopkins University School of Medicine (USA): Pr Echouffo-Tcheugui (Professor of Endocrinology and Diabetes)

INTERNATIONAL PUBLICATIONS: 597 articles in international journals (312 included in PubMed), Research Interest Score 3,509, h-index 43, mostly as 1st, 2nd, or last author, in the field of biostatistics (Biometrics, Stat Med),

epidemiology and clinical epidemiology, medical informatics and economics.

INTERNATIONAL PATENT: ANONYMAT software for pseudonymous identification and linkage.

High ranking publications during the 5 last years:

Loiseau M, Cottenet J, François-Purcell I, Bechraoui-Quantin S, Jud A, Gilard-Pioc S, Quantin C. Hospitalization for physical child abuse: Associated medical factors and medical history since birth. *Child Abuse Negl.* 2023 Dec;146:106482.

Chauvet-Gelinier JC, Cottenet J, Guillaume M, Endomba FT, Jollant F, Quantin C. Risk of hospitalization for self-harm among adults hospitalized with SARS-CoV-2 in France: A nationwide retrospective cohort study. *Psychiatry Res.* 2023 Jun;324:115214.

Simon E, Bechraoui-Quantin S, Tapia S, Cottenet J, Mariet AS, Cottin Y, Giroud M, Eicher JC, Thilaganathan B, Quantin C. Time to onset of cardiovascular and cerebrovascular outcomes after hypertensive disorders of pregnancy: a nationwide, population-based retrospective cohort study. *Am J Obstet Gynecol.* 2023 Sep;229(3):296.

Viennet M, Tapia S, Cottenet J, Bernard A, Ortega-Deballon P, Quantin C. Increased risk of colon cancer after acute appendicitis: a nationwide, population-based study. *EClinicalMedicine.* 2023 Aug 30;63:102196.

Magnin J, Bernard A, Cottenet J, Lequeu JB, Ortega-Deballon P, Quantin C, Facy O. Impact of hospital volume in liver surgery on postoperative mortality and morbidity: nationwide study. *Br J Surg.* 2023 Mar 30;110(4):441-448.

Quantin C, Tubert-Bitter P. COVID-19 and social inequalities: a complex and dynamic interaction. *Lancet Public Health.* 2022 Mar;7(3):e204-e205. doi: 10.1016/S2468-2667(22)00033-0.

Jollant F, Roussot A, Corruble E, Chauvet-Gelinier JC, Falissard B, Mikaeloff Y, Quantin C. Prolonged impact of the COVID-19 pandemic on self-harm hospitalizations in France: A nationwide retrospective observational study. *Eur Psychiatry.* 2022 Jun 13;65(1):e35

Loiseau M, Cottenet J, Bechraoui-Quantin S, Gilard-Pioc S, Mikaeloff Y, Jollant F, François-Purcell I, Jud A, Quantin C. Physical abuse of young children during the COVID-19 pandemic: Alarming increase in the relative frequency of hospitalizations during the lockdown period. *Child Abuse Negl.* 2021 Dec;122:105299.

Beltramo G, Cottenet J, Mariet AS, Georges M, Piroth L, Tubert-Bitter P, Bonniaud P, Quantin C. Chronic respiratory diseases are predictors of severe outcome in COVID-19 hospitalised patients: a nationwide study. *Eur Respir J.* 2021 Dec 9;58(6):2004474.

Mariet AS, Giroud M, Benzenine E, Cottenet J, Roussot A, Aho-Glélé LS, Tubert-Bitter P, Béjot Y, Quantin C. Hospitalizations for Stroke in France During the COVID-19 Pandemic Before, During, and After the National Lockdown. *Stroke.* 2021 Apr;52(4):1362-1369.

Quantin C, Yamdjieu Ngadeu C, Cottenet J, Escolano S, Bechraoui-Quantin S, Rozenberg P, Tubert-Bitter P, Gouyon JB. Early exposure of pregnant women to non-steroidal anti-inflammatory drugs delivered outside hospitals and preterm birth risk: nationwide cohort study. *BJOG.* 2021 Sep;128(10):1575-1584.

Maitre T, Cottenet J, Godet C, Roussot A, Abdoul Carime N, Ok V, Parrot A, Bonniaud P, Quantin C, Cadranel J. Chronic pulmonary aspergillosis: prevalence, favouring pulmonary diseases and prognosis. *Eur Respir J.* 2021 Aug 19;58(2):2003345.

Piroth L, Cottenet J, Mariet AS, Bonniaud P, Blot M, Tubert-Bitter P, Quantin C. Comparison of the characteristics, morbidity, and mortality of COVID-19 and seasonal influenza: a nationwide, population-based retrospective cohort study. *Lancet Respir Med.* 2021 Mar;9(3):251-259.

Petit JM, Goueslard K, Chauvet-Gelinier JC, Bouillet B, Vergès B, Jollant F, Quantin C. Association between hospital admission for ketoacidosis and subsequent suicide attempt in young adults with type 1 diabetes. *Diabetologia*. 2020 Sep;63(9):1745-1752.

Luu M, Benzenine E, Barkun A, Doret M, Michiels C, Degand T, Quantin C, Bardou M. Safety of first year vaccination in children born to mothers with inflammatory bowel disease and exposed in utero to anti-TNF α agents: a French nationwide population-based cohort. *Aliment Pharmacol Ther*. 2019 Dec;50(11-12):1181-1188.

Cottenet J, Dabakuyo-Yonli TS, Mariet AS, Roussot A, Arveux P, Quantin C. Prevalence of patients hospitalised for male breast cancer in France using the French nationwide hospital administrative database. *Eur J Cancer Care (Engl)*. 2019 Sep;28(5):e13117.

Vuagnat A, Jollant F, Abbar M, Hawton K, Quantin C. Recurrence and mortality 1 year after hospital admission for non-fatal self-harm: a nationwide population-based study. *Epidemiol Psychiatr Sci*. 2019 Feb 18;29:e20.

Pagès PB, Mariet AS, Madelaine L, Cottenet J, Hanna HA, Quantin C, Bernard A. Impact of video-assisted thoracic surgery approach on postoperative mortality after lobectomy in octogenarians. *J Thorac Cardiovasc Surg*. 2019 Apr;157(4):1660-1667.

Mariet AS, Mauny F, Pujol S, Thiriez G, Sagot P, Riethmuller D, Boilleaut M, Defrance J, Houot H, Parmentier AL, Vasseur-Barba M, Benzenine E, Quantin C, Bernard N. Multiple pregnancies and air pollution in moderately polluted cities: Is there an association between air pollution and fetal growth? *Environ Int*. 2018 Dec;121(Pt 1):890-897.

Baudin F, Benzenine E, Mariet AS, Bron AM, Daien V, Korobelnik JF, Quantin C, Creuzot-Garcher C. Association of Acute Endophthalmitis With Intravitreal Injections of Corticosteroids or Anti-Vascular Growth Factor Agents in a Nationwide Study in France. *JAMA Ophthalmol*. 2018 Dec 1;136(12):1352-1358.

Goueslard K, Petit JM, Cottenet J, Chauvet-Gelinier JC, Jollant F, Quantin C. Increased Risk of Rehospitalization for Acute Diabetes Complications and Suicide Attempts in Patients With Type 1 Diabetes and Comorbid Schizophrenia. *Diabetes Care*. 2018 Nov;41(11):2316-2321.

Maitre T, Cottenet J, Beltramo G, Georges M, Blot M, Piroth L, Bonniaud P, Quantin C. Increasing burden of noninfectious lung disease in persons living with HIV: a 7-year study using the French nationwide hospital administrative database. *Eur Respir J*. 2018 Sep 18;52(3):1800359.

Luu M, Benzenine E, Doret M, Michiels C, Barkun A, Degand T, Quantin C, Bardou M. Continuous Anti-TNF α Use Throughout Pregnancy: Possible Complications For the Mother But Not for the Fetus. A Retrospective Cohort on the French National Health Insurance Database (EVASION). *Am J Gastroenterol*. 2018 Nov;113(11):1669-1677.

Revert M, Rozenberg P, Cottenet J, Quantin C. Intrauterine Balloon Tamponade for Severe Postpartum Hemorrhage. *Obstet Gynecol*. 2018 Jan;131(1):143-149