



Curriculum Vitae

Personal information Catherine BEAL

Work experience

Sept 25 - Present: Methodological and Biostatistical Assessor, National Agency for Safety of Medicines and Health Products, France.

- Provide statistical scientific advices to pharmaceutical industry organizations
- Assess methodological/statistical aspects of centralized marketing authorization applications for medicines

Dec-12 to May-22: Senior Lead Biostatistician, Syneos Health, Montrouge, France

- Acted as core project team lead statistician on complex trials across various therapeutic areas and specifically in oncology from 2017
- Coordinated and supervised all statistical project activities
- Primary statistical liaison, both with the client and internal multi-functional study team
- Provided input to Data Management documents (CRF and completion guideline, Data Validation Plan, Data Management Plan, ...).
- Prepared or reviewed detailed statistical analysis plans and shells of Tables, Figures and Listings
- Performed statistical QC of computer-generated outputs to verify accuracy.
- Prepared or reviewed key portions of the study report (data handling and statistical methodology, patient accountability, baseline comparability, efficacy and safety results, limitations).
- Follow departmental or client's SOPs and Operating Guidelines, together with relevant regulatory guidelines (e.g. ICH) and addenda

Therapeutic Areas: oncology, hemato-oncology, neurology & pain, immuno-inflammation, virology/infectious diseases

Study phases: I-II (seamless designs), II, III and IV

Feb 2012 - Apr 2012: Senior Biostatistician (consultant), RPS Research, Boulogne-Billancourt, France

- Reviewed data management documents of assigned studies.
- Set milestones and timelines for data management and statistical steps.
- Oversaw CRO activity

Therapeutic Areas: pain

Aug 2002 - Jan 2012 : Biostatistician / Statistical Analyst (consultant), Keyrus Life Sciences, Levallois-Perret, France

- Worked as a consultant outsourced to a variety of clients of mid-size to large pharmaceutical companies in Paris area, Belgium (Apr 2003 to Mar 2004) and the UK (Dec 2007 to Dec 2009).
- Sept 2006 - Jul 2011: On-site study statistician.
 - Observational studies and phase II to IV randomized clinical trials in adult, pediatric or elderly populations.
 - Wrote the statistical part of protocols and performed power and sample size calculations
 - Wrote or reviewed statistical analysis plans
 - Addressed statistical issues raised by the FDA
 - Participated in selection of CRO
 - Coordinated CRO activity
 - Provided statistical input in study reports and publications, in accordance with the STROBE Statement.
 - Developed or reviewed specifications of CDISC/ADaM Analysis Data Sets
 - Provided input to data management documents.
 - Filed statistical essential documents into the Trial Master File.
 - Produced post-hoc analyses using SAS 9.1 and SAS Drug Development
 - Peer-reviewed SAS code of other programmers
- Jun 2004 - Jun 2006 and Aug 2002 - Mar 2003: On-site statistical analyst
 - Computed Tables, Figures and Listings with SAS
 - Programmed periodic data review reports for a range of studies in various therapeutic areas
 - Used SAS/Base, Stat, Graph, macro, ods rtf
- Apr 2003 - Mar 2004: On-site health outcomes researcher / SAS analyst
 - Produced epidemiological literature reviews of prevalence and incidence primary studies in 3 indications (epilepsy, atopic dermatitis and allergic rhinitis)
 - Estimated the size of target populations to support refund claims
 - Designed and computed post-hoc statistical analyses with SAS

Therapeutic Areas: neurosciences/psychiatry, neurology, oncology (solid tumors), urology, endocrinology

Study phases: I-II (seamless designs), II, III and IV

Jul 2001 - Mar 2002: Study Biostatistician, ADECCO Cadres Scientifiques, Garches, France

- Assigned to premises of a French pharmaceutical company (FOUNIER Laboratories).
- Prepared Statistical Analysis Plans and TFL shells for two phase I trials in metabolic disorders
- Prepared and led the blind review meeting
- Computed TFLs with SAS/Base, Stat and macro

Therapeutic Areas: metabolism disorders

Study phases: I

Feb 2001 - May 2001: Biostatistician, Umanis Clinical Research, Levallois-Perret, France

- Produced summary tables and listings for a few clinical trials.

Jul 1999 - Nov 2000: Nutritional Epidemiologist & SAS Analyst, Institute of Research for Development, Ouagadougou, Burkina Faso

- Pooled databases, developed and documented the data management methodology
- Defined the statistical analysis methodology of two complex design population-based surveys.
- Produced the statistical report using SAS and Epi-Info
- Wrote a study report

Education and training

July-Aug 2025: A Crash Course on Causal Inferring Causal Effects from Observational Data, Univ. of Pennsylvania, USA, on-line (platform Coursera)

Syllabus: Directed Acyclic Graphs, Pairing and propensity scores, inverse probability of treatment weighting (IPWT), methods of instrumental variables, practicals in software R.

July 2024 (6 days): Health Technology Assessment, on-line (platform EUPATI Open Classroom)

Syllabus: HTA bodies and principles, Evaluation methods (quantitative and qualitative), Patient involvement in HTA, HTA EU Regulation.

April 2024 (3 days): Introduction to Machine Learning, Statisticians in the Pharmaceutical Industry (PSI), UK, remotely.

Syllabus: foundations of ML, supervised learning, unsupervised learning, neural networks and deep learning.

Feb-Apr 2023 (7 days): Introduction to Statistics in R, Univ. of Paris-Saclay, Paris, France, on-line (platform FUN MOOC)

Used this training as an introduction to R programming, covering various topics, including survival analyses, linear and logistic regressions, principal component analysis, and hierarchical clustering.

Sept 1997 - June 1998: MSc. Biostatistics, University of Sciences and Technology of Languedoc, France

Options: agronomy & health

Sept 1992 - June 1994: Bachelor Mathematics, University of Provence, Marseille, France

Additional information

Publications

F.Rouillon, F.Chartier, S.Kraemer, M.Lukasiewicz, S.Tcherny-Lessenot, C.Beal. "Naturalistic use of the coated and orally disintegrating tablets of olanzapine in schizophrenic and bipolar outpatients: European baseline results." *European Psychiatry* 25 (2010): 1598.

Vibeke Porsdal, Catherine Beal, Ole Kristian Kleivenes, Egil W Martinsen, Eva Lindström, Harriet Nilsson and Pär Svanborg. "The Scandinavian Solutions for Wellness study - a two-arm observational study on the effectiveness of lifestyle intervention on subjective well-being and weight among persons with psychiatric disorders" *BMC Psychiatry* (2010): 10:42.

Vassiliki Psarra, Vangelis Drossinos, Maria-Vassiliki Mantellou, Kostas Ntzamaras and Catherine Beal. "Effect of the Greek Solutions for Wellness weight management program on quality of life and associated factors in patients with a psychiatric disorder receiving psychotropic medication;" *Annals of General Psychiatry* 0 (2010) : S179.

Rouillon F., Chartier F., Kraemer S., Lukasiewicz M., Tcherny-Lessenot S., Beal C. "Naturalistic use of the coated and orally disintegrating tablets of olanzapine in schizophrenic and bipolar outpatients: European baseline results." *European Congress of Psychiatry: Munich, Germany, 27 Feb - 2 Mar 2010 [poster]*

Porsdal V, Kleivenes OK, Beal C, Svanborg P. "Effectiveness of Lifestyle Intervention: Observational Study on Subjective Well-Being and Weight of Psychiatric Patient". *Nordic Congress of Psychiatry: Stockholm, Sweden, 22-25 Sep 2009 [poster]*.

Psarra V, Béal C, Vasileiou A. "Effectiveness of the Greek lifestyle program Solutions for Wellness for Psychiatric Patients- Results from a Six Month Observational Study". *Federation of Mental Health World Congress: Athens, Greece, 2-6 Sep 2009 [poster]*

Psarra V, Drossinos V, Vasileiou A, Ntzamaras A, Beal C and the Hellenic EY-ZHN study team. "Effectiveness of the Greek lifestyle program Solutions for Wellness for Psychiatric Patients - Results from a Six Month Observational

Study". World Federation of Mental Health Congress: Athens, Greece, 2-6 Sep 2009.

Kraemer S, Minarzyk A, Béal C. "Factors Associated with Metabolic Syndrome in German Patients with Schizophrenia". 162nd American Psychiatric Association Annual Meeting: San Francisco, California, USA, 16-21 May 2009 [poster]

Kraemer S, Minarzyk A, Béal C, Hundemer H, Forst T., Kopf D. "Metabolic syndrome in German patients with schizophrenia - baseline-data from treatment-naive patients and patients previously treated with antipsychotics". *European Psychiatry* 24 (2009): S1170.

Kraemer S, Minarzyk A, Béal C, Hundemer H, Forst T., Kopf D. "Metabolic syndrome in German patients with schizophrenia - baseline-data from treatment-naive patients and patients previously treated with antipsychotics". *European Congress of Psychiatry: Lisbon, Portugal, 24-28 Jan 2009* [poster]

Porsdal V, Kleivenes OK, Béal C, Svanborg P. "The Scandinavian Solutions for Wellness Study: A 6 months observational study on the effectiveness of the lifestyle program Solutions for Wellness". *European Congress of Psychiatry: Lisbon, Portugal, 24-28 Jan 2009* [poster]

Porsdal V, Kleivenes OK, Béal C, Svanborg P. "The Scandinavian Solutions for Wellness Study: A 6 months observational study on the effectiveness of the lifestyle program Solutions for Wellness for psychiatric patients - focusing on quality of life". *Swedish Society of Medicine: Göteborg, Sweden, 26-28 Nov 2008* [poster].

Chabot-Bouchaud A, Dargent P, Colau J, Bihr X, Germa C, Liu-Léage S, Béal C, Houéto P, Taïeb C. "Suivi de la prescription et de l'utilisation du raloxifène en pratique de ville". *Société Française de Rhumatologie: Paris, France, 2-5 Dec. 2007* [poster]

A. Chabot-Bouchaud, P. Dargent, J.C. Colau, X. Bihr, C. Germa, S. Liu-Leage, C. Beal, P. Houéto, C. Taïeb. "Suivi de la prescription et de l'utilisation du raloxifène en pratique de ville". *Revue du rhumatisme* 10 (2010): 1112-1113.

Parent G, Zagré N, Ouédraogo A, Béal C, Kambiré R, Compaoré I, Guiguemdé R. "Les grands hydro-aménagements au Burkina Faso contribuent-ils à l'amélioration des situations nutritionnelles ?". *Les Cahiers de l'agriculture* 5 (2000): 441

Projects

Memberships

Memberships

Statisticians in the Pharmaceutical Industry (PSI) - Regular Member

Other Relevant Information