

PERSONAL INFORMATION

Catherine Cornu

WORK EXPERIENCE

September 1981–June 1984

Resident in Endocrinology

Grenoble University Hospital (France)

Endocrinology in a hospital

September 1984–April 1986

Medical Coordinator Khao I Dang

Handicap International (Thailand)

Care for amputees or other disabled persons victims of war

April 1987–April 1990

Endocrinology

Private clinic (France)

Private clinic in endocrinology

September 1990–December
1999**Clinical Research Project Leader**

Agence pour la Recherche et l'Evaluation des Therapeutiques (France)

Conduct of clinical research projects, meta-analysis

January 2000–Present

Clinical Research Physician

Hospices Civils de Lyon (France)

Clinical research conception, design, conduct and publishing.

Meta-analysis, modeling and clinical trial simulation.

EDUCATION AND TRAINING

September 1974–June 1981

Medical studies

Grenoble university (France)

Medical Doctor graduation

September 1981–June 1984

Specialist in Endocrinology, diabetes, nutrition and metabolic diseases

Claude Bernard University, Lyon (France)

Specialization in Endocrinology, diabetes, nutrition and metabolic diseases

September 1994–June 1995

MsC in Fundamental and Clinical Pharmacology

Claude Bernard University, Lyon (France)

Experimental pharmacokinetics and effects of drugs in humans

September 1999–June 2000

Diploma of university in medical pedagogy

Claude Bernard University (France)

Pedagogy for medical students

June 2013–June 2013

Accreditation to supervise PhDs and postdocs

Claude Bernard University Lyon (France)

Accreditation to supervise PhDs and postdocs

ADDITIONAL INFORMATION

Expertise Clinical research methodology, design and conduct
 Meta-analysis
 Medical fields: endocrinology, pediatrics and rare diseases

- Publications**
1. Eymard N, Volpert V, Kurbatova P, Volpert V, Bessonov N, Ogungbenro K, Aarons L, Janiaud P, Nony P, Bajard A, Chabaud S, Bertrand Y, Kassai B, Cornu C, Nony P; CRESim project group. Mathematical model of T-cell lymphoblastic lymphoma: disease, treatment, cure or relapse of a virtual cohort of patients. *Math Med Biol.* 2017 Jan 12. pii: dqw019. doi: 10.1093/imammb/dqw019. [Epub ahead of print]
 2. Grenet G, Lajoinie A, Ribault S, Nguyen GB, Linet T, Metge A, Cornu C, Cucherat M, Moulin P, Gueyffier F. Protocol of GLUCOSE COntrol Safety and Efficacy in type 2 DIabetes, a NETwork meta-analysis: GLUCOSE DINET protocol - Rational and design. *Fundam Clin Pharmacol.* 2016 Dec 30. doi: 10.1111/fcp.12263. [Epub ahead of print] Review.
 3. Bretones P, Riche B, Pichot E, David M, Roy P, Tardy V, Kassai B, Gaillard S, Bernoux D, Morel Y, Chatelain P, Nicolino M, Cornu C; French Collaborative CAH Growth Study Group. Growth curves for congenital adrenal hyperplasia from a national retrospective cohort. *J Pediatr Endocrinol Metab.* 2016 Dec 1;29(12):1379-1388. doi: 10.1515/jpem-2016-0156.
 4. Braquet P, Alla F, Cornu C, Goehringer F, Piroth L, Chirouze C, Revest M, Lechiche C, Duval X, Le Moing V; VIRSTA-AEPEI study group. Factors associated with 12 week case-fatality in *Staphylococcus aureus* bacteraemia: a prospective cohort study. *Clin Microbiol Infect.* 2016 Aug 8. pii: S1198-743X(16)30291-9. doi: 10.1016/j.cmi.2016.07.034. PMID: 27515395
 5. Erpeldinger S, Rehman MB, Berkhout C, Pigache C, Zerbib Y, Regnault F, Guérin E, Supper I, Cornu C, Kassai B, Gueyffier F, Boussageon R. Efficacy and safety of insulin in type 2 diabetes: meta-analysis of randomised controlled trials. *BMC Endocr Disord.* 2016 Jul 8;16(1):39. doi: 10.1186/s12902-016-0120-z. PMID: 27391319 Free PMC Article
 6. Kurbatova P, Wendling F, Kaminska A, Rosati A, Nabbout R, Guerrini R, Dulac O, Pons G, Cornu C, Nony P; CRESIM/EpiCRESIM Study Group., Chiron C, Benquet P. Dynamic changes of depolarizing GABA in a computational model of epileptogenic brain: Insight for Dravet syndrome. *Exp Neurol.* 2016 Sep;283(Pt A):57-72. doi: 10.1016/j.expneurol.2016.05.037.
 7. Dualé C, Breyse G, Bories-Azeau B, Cornu C. French academic's views on financial compensation of participants. *Eur J Clin Invest.* 2016 Jul;46(7):619-26.
 8. Rehman MB, Tudrej BV, Soustre J, Buisson M, Archambault P, Pouchain D, Vaillant-Roussel H, Gueyffier F, Faillie JL, Perault-Pochat MC, Cornu C, Boussageon R. Efficacy and safety of DPP-4 inhibitors in patients with type 2 diabetes: Meta-analysis of placebo-controlled randomized clinical trials. *Diabetes Metab.* 2016 Oct 10. pii: S1262-3636(16)30505-5. doi: 10.1016/j.diabet.2016.09.005. PMID: 27745828
 9. Janiaud P, Cornu C, Lajoinie A, Djemli A, Cucherat M, Kassai B. Is the perceived placebo effect comparable between adults and children? A meta-regression analysis. *Pediatr Res.* 2016 Oct 12.
 10. Bejan-Angoulvant T, Cornu C, Archambault P, Tudrej B, Audier P, Brabant Y, Gueyffier F, Boussageon R. Is HbA1c a valid surrogate for macrovascular and microvascular complications in type 2 diabetes? *Diabetes Metab.* 2015 Jun;41(3):195-201. doi: 10.1016/j.diabet.2015.04.001. Epub 2015 May 6.
 11. Le Moing V, Alla F, Doco-Lecompte T, Delahaye F, Piroth L, Chirouze C, Tattevin P, Lavigne JP, Erpelding ML, Hoen B, Vandenesch F, Duval X; VIRSTA study group. *Staphylococcus aureus* Bloodstream Infection and Endocarditis—A Prospective Cohort Study. *PLoS One.* 2015 May 28;10(5):e0127385. doi: 10.1371/journal.pone.0127385. eCollection 2015.
 12. Janiaud P, Cornu C, Kassai B. Extrapolation will never replace randomized clinical trials. *J Clin Epidemiol.* 2016 Mar;71:109-10. doi: 10.1016/j.jclinepi.2015.06.019. Epub 2015 Jul 4.
 13. Nacka F, Benadjaoud L, Fayon M, Jacqz-Aigrain E; Membres du Réseau Pédiatrique Inserm des Centres d'investigations cliniques (CIC), Demarez JP. Consent in children: Practical situations (part 2). *Arch Pediatr.* 2015 Sep;22(9):989-95. doi: 10.1016/j.arcped.2015.06.010. Epub 2015 Jul 27.
 14. Nacka F, Benadjaoud L, Fayon M, Jacqz-Aigrain E; Membres du Réseau Pédiatrique Inserm des Centres d'investigations cliniques (CIC), Demarez JP. Legal aspects of consent in children (Part 1). *Arch Pediatr.* 2015 Sep;22(9):983-8. doi: 10.1016/j.arcped.2015.06.013. Epub 2015 Jul 27.

15. Bouchiat C, Moreau K, Devillard S, Rasigade JP, Mosnier A, Geissmann T, Bes M, Tristan A, Lina G, Laurent F, Piroth L, Aissa N, Duval X, Le Moing V, Vandenesch F, and the French VIRSTA Study Group. *Staphylococcus aureus* infective endocarditis versus bacteremia strains: Subtle genetic differences at stake. *Infection, Genetics and Evolution* 36 (2015) 524–530
16. Jacqz-Aigrain E, Kassai B, Cornu C, Cazaubiel JM, Housez B, Cazaubiel M, Prevel JM, Bell M, Boileau A, De Cock P (2015). Gastrointestinal tolerance of erythritol-containing beverage in young children: a double-blind randomised controlled trial, *European journal of clinical nutrition*, vol. 69 pp.746-51, DOI.
17. Bousageon R, Gueyffier F, Cornu C (2016). Metformin as firstline treatment for type 2 diabetes: are we sure?, *British medical journal*, vol. 352 pp.h6748-h6748, DOI.
18. Paris A, Deygas B, Cornu C, Thalamas C, Maison P, Duale C, Kane M, Hodaj E, Cracowski JL. Improved informed consent documents for biomedical research do not increase patients' understanding but reduce enrolment: a study in real settings. *Br J Clin Pharmacol*. 2015 Nov;80(5):1010-20. doi: 10.1111/bcp.12716. Epub 2015 Sep 21. PMID: 26147763
19. Kurbatova, Bessonov, Volpert, Tiddens, Cornu, Nony, Caudri, on behalf of the CRESim working group. Model of mucociliary clearance in cystic fibrosis lungs. *J Theor Biol*. 2015 May 7;372:81-8. doi: 10.1016/j.jtbi.2015.02.023. Epub 2015 Mar 5.
20. Bajard A, Chabaud S, Cornu C, Castellan AC, Malik S, Kurbatova P, Volpert V, Eymard N, Kassai B, Nony P; CRESim & Epi-CRESim study groups. An in silico approach helped to identify the best experimental design, population, and outcome for future randomized clinical trials. *J Clin Epidemiol*. 2015 Jul 15. pii: S0895-4356(15)00338-8. doi: 10.1016/j.jclinepi.2015.06.024
21. Eymard, Volpert, Bessonov, Ogungbenro, Aarons, Bajard, Chabaud, Garnier, Bernoux, Bertrand, Castellan, Malik, Kassai, Cornu, Nony for the CRESim project group. Mathematical model of T-cell lymphoblastic lymphoma: disease, treatment, cure or relapse of a virtual cohort of patients. Submitted to *J of Theoret Biol*
22. Buisson M, Cornu C, Nony P. Erroneous Event Count in a Meta-Analysis (Dipeptidyl Peptidase-4 Inhibitors in Type 2 Diabetes Mellitus). *Am J Cardiol*. 2014 Nov 26. Letter
23. Ogungbenro K, Aarons L; CRESim & Epi-CRESim Project Groups. A physiologically based pharmacokinetic model for clobazam and stiripentol in adults and children. *Pharm Res*. 2015 Jan;32(1):144-57.
24. Ogungbenro K, Aarons L; CRESim & Epi-CRESim Project Groups. A physiologically based pharmacokinetic model for Valproic acid in adults and children. *Eur J Pharm Sci*. 2014 Oct 15;63:45-52.
25. Cornu C, David F, Duchossoy L, Hansel-Esteller S, Bertoye PH, Giacomino A, Mouly S, Diebolt V, Blazejewski S. [Organising an investigation site: a national training reference document]. *Therapie*. 2014 Jul-Aug;69(4):367-81.
26. Ogungbenro K, Aarons L; CRESim & Epi-CRESim Project Groups. Physiologically based pharmacokinetic modelling of methotrexate and 6-mercaptopurine in adults and children. Part 2: 6-mercaptopurine and its interaction with methotrexate. *J Pharmacokinet Pharmacodyn*. 2014 Apr;41(2):173-85.
27. Ogungbenro K, Aarons L; CRESim & Epi-CRESim Project Groups. Physiologically based pharmacokinetic modelling of methotrexate and 6-mercaptopurine in adults and children. Part 1: methotrexate. *J Pharmacokinet Pharmacodyn*. 2014 Apr;41(2):159-71.
28. Nony P, Kurbatova P, Bajard A, Malik S, Castellan C, Chabaud S, Volpert V, Eymard N, Kassai B, Cornu C, The CRESim and Epi-CRESim study groups. A methodological framework for drug development in rare diseases. *Orphanet Journal of Rare Diseases*. 2014, 9:164. DOI: 10.1186/s13023-014-0164-y
29. Bousageon R, Gueyffier F, Cornu C, Effects of pharmacological treatments on micro- and macrovascular complications of type 2 diabetes: What is the level of evidence? *Diabetes Metab*. 2014;.
30. Boeynaems JM, Canivet C, Chan A, Clarke MJ, Cornu C, Daemen E, et al, A European approach to clinical investigator training. *Front Pharmacol*. 2013; 112.
31. Bousageon, R., Gueyffier, F., & Cornu, C. (2013). Correspondance à propos de l'article «Objectifs glycémiques dans la prise en charge du diabète de type 2». *La Presse médicale*, 42(9), 1284-1286.
32. Bousageon, R., Supper, I., Erpeldinger, S., Cucherat, M., Bejan-Angoulvant, T., Kassai, B., Cornu C, Gueyffier F. (2013). Are concomitant treatments confounding factors in randomized controlled trials on intensive blood-glucose control in type 2 diabetes? a systematic review. *BMC medical research methodology*, 13(1), 1-5.

33. Wallon, M., Garweg, J. G., Abrahamowicz, M., Cornu, C., Vinault, S., Quantin, C., ... & Binquet, C. (2014). Ophthalmic Outcomes of Congenital Toxoplasmosis Followed Until Adolescence. *Pediatrics*, peds-2013.
34. Boussageon R, Gamble JM, Gueyffier F, Cornu C. [Efficacité cliniquement pertinente de l'insulinothérapie chez les patients diabétiques de type 2]. *Thérapie*. 2013 Nov-Dec;68(6):415-7. doi: 10.2515/therapie/2013063. Epub 2013 Nov 11. [Article in French]
35. Cornu, C., Dufays, C., Gaillard, S., Gueyffier, F., Redonnet, M., Sebbag, L., ... & Boissonnat, P. (2013). Impact of the Reduction of Calcineurin Inhibitors on Renal Function in Heart Transplant Patients: A Systematic Review and Meta-Analysis. *British journal of clinical pharmacology*.
36. Cornu C, Kassai B, Fisch R, Chiron C, Alberti C, Guerrini R, Rosati A, Pons G, Tiddens H, Chabaud S, Caudri D, Ballot C, Kurbatova P, Castellan AC, Bajard A, Nony P. Experimental designs for small randomised clinical trials: an algorithm for choice. *Orphanet J Rare Dis*. 2013 Mar 25;8(1):48.
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38. Wallon M, Peyron F, Cornu C, Vinault S, Abrahamowicz M, Bonithon Kopp C, Binquet C. Congenital Toxoplasma infection: monthly prenatal screening decreases transmission rate and improves clinical outcome at 3 years. *Clin Infect Dis*. 2013 Jan 29. [Epub ahead of print] IF 9.154
39. Cornu, C., Binquet, C., Thalamas, C., Vigouroux, C., Gaillard, S., Ginhoux, T., ... & Kassai, B. (2012). [Public Clinical Trials: which Kind of Monitoring Should be Used?]. *Thérapie*, 68(3), 135-141.
40. Boissonnat P, Gaillard S, Mercier C, Redonnet M, Lelong B, Mattei MF, Mouly-Bandini A, Pattier S, Sirinelli A, Epailly E, Varnous S, Billes MA, Sebbag L, Ecochard R, Cornu C, Gueyffier F. Impact of the early reduction of cyclosporine on renal function in heart transplant patients: a French randomised controlled trial. *Trials*. 2012 Dec 3;13:231. doi: 10.1186/1745-6215-13-231.
41. Scholtes C, André P, Trépo C, Cornu C, Remontet L, Ecochard R, Bejan-Angoulvant T, Gueyffier F. Farnesoid X Receptor Targeting for Hepatitis C: Study Protocol for a Proof-of-concept Trial. *Thérapie*. 2012 Sep;67(5):423-427. Epub 2012 Dec 18.
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43. Escuret V, Cornu C, Boutitie F, Enouf V, Mosnier A, Bouscambert-Duchamp M, Gaillard S, Duval X, Blanchon T, Lepout C, Gueyffier F, Van Der Wer S, Lina B. Oseltamivir-zanamivir bitherapy compared to oseltamivir monotherapy in the treatment of pandemic 2009 influenza A(H1N1) influenza virus infections. *Antiviral Res*. 2012 Aug 14.
44. Boussageon R, Supper I, Bejan-Angoulvant T, Kellou N, Cucherat M, Boissel JP, Kassai B, Moreau A, Gueyffier F, Cornu C. Reappraisal of Metformin Efficacy in the Treatment of Type 2 Diabetes: A Meta-Analysis of Randomised Controlled Trials. *PLoS Med*. 2012;9(4):e1001204.
45. Cornu C, Camberlein C, Binquet C, Robert C, Vigouroux C, Bouyssou C, Felin A, Dupont-Mordelet MF, Saily A, Kubiak C, Poli G, Gueguen S, Duchesne C, Ploix S, Thalamas C; French National Institute for Health and Medical Research. [A manual of good professional practices for the Clinical Investigation Centres]. *Thérapie*. 2012 Jan-Feb;67(1):11-42. doi: 10.2515/therapie/2012006. Epub 2012 Apr 11. French.
46. Boussageon R, Bejan-Angoulvant T, Saadatian-Elahi M, Lafont S, Bergeonneau C, Kassai B, Erpeldinger S, Wright JM, Gueyffier F, Cornu C. Effect of intensive glucose lowering treatment on all cause mortality, cardiovascular death, and microvascular events in type 2 diabetes: meta-analysis of randomised controlled trials. *BMJ*. 2011 Jul 26;343:d4169
47. Wallon M, Kieffer F, Binquet C, Thulliez P, Garcia-Méric P, Dureau P, Franck J, Peyron F, Bonnin A, Villena I, Bonithon-Kopp C, Gouyon JB, Masson S, Félin A, Cornu C. [Congenital toxoplasmosis: randomised comparison of strategies for retinochoroiditis prevention]. *Thérapie*. 2011 Nov-Dec;66(6):473-80. doi: 10.2515/therapie/2011070. Epub 2011 Dec 21. French.
48. Cornu C, Nony P, Joubert E. Women were included twice in a meta-analysis. *Am J Med*. 2011 Sep;124(9):e17; author reply e19. doi: 10.1016/j.amjmed.2011.02.017. No abstract available.
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50. Hénin Y, de Boischevalier B, Reboul-Salze F, Cracowski JL, Dualé C; Groupe de Travail "Éthique"

- du Réseau National des Centres d'Investigation Clinique. Informed consent form for biomedical research: a tutorial for redaction. *Therapie*. 2010 Mar-Apr;65(2):71-94. Epub 2010 May 19. French. Erratum in: *Therapie*. 2010 May-Jun;65(3):275. Chappuy, H el ene [added]; Cornu, Catherine [added]; Costa, Yolande [added]; Deygas, B eatrice [added]; Dosquet, Christine [added]; Gueguen, Sonia [added]; Paris, Adeline [added]; Thalamas, Claire [added].
51. de Souza Neto EP, Grousseau S, Duffo F, Gandreau S, Rousson D, Cornu C, Mottolese C, Froment JC, Dailler F. [Design and evaluation of the quality of information written for scanner and magnetic resonance imaging in neuropediatrics.] *Ann Fr Anesth Reanim*. 2010 Aug 20.
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53. Bournaud C, Charri e A, Nozi eres C, Chikh K, Lapras V, Denier ML, Paulin C, Decaussin-Petrucci M, Peix JL, Lifante JC, Cornu C, Giraud C, Orgiazzi J, Borson-Chazot F. Thyroglobulin measurement in fine-needle aspirates of lymph nodes in patients with differentiated thyroid cancer: a simple definition of the threshold value, with emphasis on potential pitfalls of the method. *Clin Chem Lab Med*. 2010 Aug;48(8):1171-7.
54. Paris A Brandt C, Cornu C, Maison P, Thalamas C, & Cracowski JL. Informed consent documents improvement does not increase patients' comprehension in biomedical research. *Br J Clin Pharmacol* 2010, 69:3 231–237
55. Cornu C, Joseph P, Gaillard S, Bauer C, Vedrinne C, Bissery A, Melot G, Bossard N, Belon P & Lehot JJ. No effect of a homeopathic combination of *Arnica montana* and *Bryonia alba* on bleeding, inflammation, and ischaemia after aortic valve surgery. *Br J Clin Pharmacol* 2010 69:2 136–142
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60. Piriou V., Mantz J., Goldfarb G., Kitakaze M., Chiari P., Paquin S., Cornu C, Lecharny JB, Aussage P, Vicaut E, Pons A, Lehot JJ. Sevoflurane preconditioning at 1 MAC only provides limited protection in patients undergoing coronary artery bypass surgery. A randomized bicentre trial. *British Journal of Anaesthesia*. 2007 Nov;99(5):624-631 IF 2.679
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63. Paris A, Cracowski JL, Maison P, Radauceanu A, Cornu C, Hommel M. Related Articles, Links. Impact of French 'Comites de Protection des Personnes' on the readability of informed consent documents (ICD) in biomedical research: more information, but not better information. *Fund Clin Pharmacol*. 2005 Jun;19(3):395-9. IF 1.771
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- dependency in elderly persons: randomized study in the community]. *Therapie*. 2003 Sep-Oct;58(5):451-6. IF 0.381
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Projects

Multicenter Acute Stroke Trials-Thrombolysis study. Clinical Trials and Meta-analysis

Thrombolysis in acute stroke pooling project (TAS-PP): a prospective pooled individual patient database.

Survey of the attitudes to management of acute pyelonephritis in children

ENQHOM: a preliminary survey for homeopathic treatment of ENT infections in children

Pneumococcal polysaccharide vaccine in immunocompetent adults: a meta-analysis of randomized trials

COLIBRI: The Effects Of Exercise And Proteino Energetic Supplements On Body Composition And Muscle Function In Frail Elderly People: A Long Term Controlled Randomised Study

QUIP: Readability of informed consent forms for subjects participating in biomedical research: updating is required.

IDA child: Influence of measles vaccination on the progression of atopic dermatitis in infants.

Coussin: A positioning pillow to improve lumbar puncture in paediatric haematology-oncology patients: A randomized controlled trial.

Factors affecting the adherence to an antenatal screening programme: an experience with toxoplasmosis screening in France

The Prevention of Post-Partum Relapses with Progestin and Estradiol in Multiple Sclerosis (POPARTMUS) trial

Memberships

Other Relevant Information

2015- : President of the French Independant Ethics Committee (Comité de Protection des Personnes Sud-Est II)2009-2015: member of the French Independant Ethics Committee (Comité de Protection des Personnes Sud-Est II)

2014-: auditor for ECRIN certification of data centres

2011-: member of the working group on Pharmacological treatment of Type 2 diabetes, at French Health Authority

2006-: evaluator for EU FP7, « People » (Initial Training Network)

2002-: French Health High Authority, INSERM, Medicine Academy: working groups

2002-2004: AFSSAPS working group

Mai 2002, Avril 2004 : independant evaluator for EU FP6 « Marie Curie Fellowships » (Early Stage Training)