



## Curriculum Vitae

### Personal information **Rosemary Dray-Spira**

#### Work experience

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1. Employer: INSERM
  - Start date: 012004
  - End date: 042015
  - Position: Researcher
  - Activities:
  - Country: France
2. Employer: ANSM
  - Start date: 042015
  - End date: 122018
  - Position: Head of the Department of Epidemiology
  - Activities:
  - Country: France
3. Employer: ANSM
  - Start date: 012019
  - End date:
  - Position: Deputy Director of EPI\_PHARE
  - Activities:
  - Country: France

#### Education and training

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1. Subject:
  - Start date:
  - End date: 2002
  - Qualification: MD
  - Organisation:
  - Country:
2. Subject:
  - Start date:
  - End date: 2005
  - Qualification: PhD in Epidemiology
  - Organisation:
  - Country:

#### Additional information

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##### Publications

ORCID ID : 0000-0001-7646-3667  
H-index 56 (Google Scholar)  
>200 original indexed publications in international peer-reviewed journals

##### *Selection of major publications since 2020*

Lassalle M, Le Tri T, Bardou M, Biour M, Kirchgessner J, Rouby F, Dumarcet N, Zureik M, Dray-Spira R. Use of Proton Pump Inhibitors in Adults in France: A Nationwide Drug Utilization Study. *Eur J Clin Pharmacol* 2020; 76(3):449-457.

Coste J, Blotiere PO, Miranda S, Mikaeloff Y, Peyre H, Ramus F, Zureik M, Weill A, Dray-Spira R. Risk of early neurodevelopmental disorders associated with in utero exposure to valproate and other antiepileptic drugs: a nationwide cohort study in France. *Sci Rep* 2020; 10(1):17362.

Jabagi MJ, Vey N, Goncalves A, Le Tri T, Zureik M, Dray-Spira R. Risk of secondary hematologic malignancies associated with breast cancer chemotherapy and G-CSF support: A nationwide population-based cohort. *Int J Cancer* 2021;148(2):375-384.

Meyer A, Drouin J, Zureik M, Weill A, Dray-Spira R. Colonoscopy in France during the COVID-19 pandemic. *Int J Colorectal Dis* 2021; 36(5):1073-1075.

Semenzato L, Botton J, Drouin J, Baricault B, Vabre C, Cuenot F, Penso L, Herlemont P, Sbidian E, Weill A, Dray-Spira R, Zureik M. Antihypertensive Drugs and COVID-19 Risk - A Cohort Study of 2 Million Hypertensive Patients. *Hypertension* 2021; 77(3):833-842.

Taine M, Offredo L, Drouin J, Toubiana J, Weill A, Zureik M, Dray-Spira R. Mandatory Infant Vaccinations in France During the COVID-19 Pandemic in 2020. *Front Pediatr* 2021; 9:666848.

Meyer A, Semenzato L, Zureik M, Weill A, Carbonnel F, Dray-Spira R. Risk of severe COVID-19 in patients treated with IBD medications: a French nationwide study. *Aliment Pharmacol Ther* 2021; 54(2):160-166.

Meyer A, Drouin J, Weill A, Carbonnel F, Dray-Spira R. Comparative study of pregnancy outcomes in women with inflammatory bowel disease treated with thiopurines and/or anti-TNF: a French nationwide study 2010-2018. *Aliment Pharmacol Ther* 2021; 54(3):302-311.

Penso L, Dray-Spira R, Weill A, Pina Vegas L, Zureik M, Sbidian E. Association Between Biologics Use and Risk of Serious Infection in Patients With Psoriasis. *JAMA Dermatol* 2021; 157(9):1056-1065.

Meyer A, Taine M, Drouin J, Weill A, Carbonnel F, Dray-Spira R. Serious infections in children born to mothers with inflammatory bowel disease with in utero exposure to thiopurines and anti-TNF. *Clin Gastroenterol Hepatol* 2021; 20(6):1269-1281.e9.

Penso L, Dray-Spira R, Weill A, Zureik M, Sbidian E. Psoriasis-related treatment exposure and hospitalization or in-hospital mortality due to COVID-19 during the first and second wave of the pandemic: cohort study of 1,326,312 patients in France. *Br J Dermatol* 2022; 186(1):59-68.

Penso L, Bergqvist C, Meyer A, Herlemont P, Weill A, Zureik M, Dray-Spira R, Sbidian E. Risk of inflammatory bowel disease in patients with psoriasis, psoriatic arthritis and ankylosing spondylitis initiating interleukin 17 inhibitors: a nationwide population-based study using the French national health data system. *Arthritis Rheumatol* 2022; 74(2):244-252.

Jabagi MJ, Botton J, Bertrand M, Weill A, Farrington P, Zureik M, Dray-Spira R. Myocardial Infarction, Stroke, and Pulmonary Embolism After BNT162b2 mRNA COVID-19 Vaccine in People Aged 75 Years or Older. *JAMA* 2022; 327(1):80-82.

Lassalle M, Le Tri T, Afchain P, Camus M, Kirchgessner J, Zureik M, Dray-Spira R. Use of Proton Pump Inhibitors and Risk of Pancreatic Cancer: A Nationwide Case-Control Study Based on the French National Health Data System (SNDS). *Cancer Epidemiol Biomarkers Prev* 2022; 31(3):662-669.

Ghebremichael-Weldeselassie Y, Jabagi MJ, Botton J, Bertrand M, Baricault B, Drouin J, Weill A, Zureik M, Dray-Spira R, Farrington P. A modified self-controlled case series method for event-dependent exposures and high event-related mortality, with application to COVID-19 vaccine safety. *Stat Med* 2022; 41(10):1735-1750.

Botton J, Semenzato L, Jabagi MJ, Baricault B, Weill A, Dray-Spira R, Zureik M. Effectiveness of Ad26.COV2.S Vaccine vs BNT162b2 Vaccine for COVID-19 Hospitalizations. *JAMA Netw Open* 2022; 5(3):e220868.

Jourdain H, Billioti de Gage S, Desplas D, Dray-Spira R. HIV pre-exposure prophylaxis (PrEP) effectiveness in the real world: a nested case-control study among 46,706 men at high risk of HIV infection in France. *Lancet Public Health* 2022; 7(6):e529-36.

Le Vu S, Bertrand M, Jabagi MJ, Botton J, Drouin J, Baricault B, Weill A, Dray-Spira R, Zureik M. Age and sex-specific risks of myocarditis and pericarditis following Covid-19 messenger RNA Vaccines: a nationwide assessment. *Nat Commun* 2022; 13(1):3633.

Semenzato L, Botton J, Drouin J, Baricault B, Bertrand M, Jabagi MJ, Cuenot F, Le Vu S, Dray-Spira R, Weill A, Zureik M. Characteristics associated with residual risk of severe COVID-19 after a complete vaccination schedule in 28 million people in France. *Lancet Reg Health Eur* 2022; 19:100441.

Billioti de Gage S, Desplas D, Dray-Spira R. Roll-out of HIV pre-exposure prophylaxis use in France: a nationwide study from 2016 to 2021. *Lancet Reg Health Eur* 2022; 22:100486.

Botton J, Jabagi MJ, Bertrand M, Baricault B, Drouin J, Le Vu S, Weill A, Zureik M, Dray-Spira R. The risk of myocardial infarction, stroke, and pulmonary embolism following Covid-19 vaccines in adults aged less than 75 years in France. *Ann Intern Med* 2022; 175(9):1250-1257.

Meyer A, Rios P, Drouin J, Weill A, Carbonnel F, Dray-Spira R. Maternal exposure to anti-TNF or thiopurines for IBD does not increase risk of early-life malignancy in children. *Clin Gastroenterol Hepatol* 2023; 2679-2681.e5.

Meyer A, Neumann A, Drouin J, Weill A, Carbonnel F, Dray-Spira R. Benefits and risks associated with continuation of anti-TNF after 24 weeks of pregnancy in women with inflammatory bowel disease: a nationwide emulsion trial. *Ann Intern Med* 2022; 175(10):1374-1382.

Tubiana S, Sibiude J, Herlemont P, Drouin J, Picone O, Duval X, Weill A, Zureik M, Dray-Spira R. Trends in anti-infective use during pregnancy in France between 2010 and 2019: a nationwide population-based study. *Br J Clin Pharmacol* 2023; 89:1629-1639.

Roland N, Baricault B, Weill A, Bouillon K, Dray-Spira R, Duranteau L, Zureik M. Association Between Doses of Levonorgestrel Intrauterine Systems and Subsequent Use of Psychotropic Drugs in France. *JAMA* 2023; 329(3):257-259.

Jabagi MJ, Bertrand M, Botton J, Le Vu S, Weill A, Dray-Spira R, Zureik M. Stroke, Myocardial Infarction, and Pulmonary Embolism after Bivalent Booster. *N Engl J Med* 2023; 388(15):1431-1432.

Laanani M, Weill A, Jollant F, Zureik M, Dray-Spira R. Suicidal risk associated with finasteride versus dutasteride among men treated for benign prostatic hyperplasia: nationwide cohort study. *Sci Rep* 2023;13(1):5308.

Lassalle M, Zureik M, Dray-Spira R. Proton Pump Inhibitor Use and Risk of Serious Infections in Young Children: Nationwide Study Based on the French National Health Data System (SNDS). *JAMA Pediatr* 2023; 177(10):1028-1038.

Le Vu S, Bertrand M, Botton J, Drouin J, Semenzato L, Weill A, Dray-Spira R, Zureik M. Risk of Guillain-Barré syndrome following Covid-19 vaccines: a nationwide self-controlled case series study. *Neurology* 2023; 101(21):e2094-e2102.

Meyer A, Miranda S, Drouin J, Weill A, Carbonnel F, Dray-Spira R. Safety of Vedolizumab and Ustekinumab Compared With Anti-TNF in Pregnant Women With Inflammatory Bowel Disease. *Clin Gastroenterol Hepatol* 2024:S1542-3565(24)00010-7.

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Swital M, Drouin J, Miranda S, Bakchine S, Botton J, Dray-Spira R. Use of multiple sclerosis disease-modifying therapies during pregnancy in France: Nationwide study between 2010 and 2021. *Mult Scler* 2024;30(2):227-237.

Rios P, Herlemont P, Fauque P, Lacour B, Jouannet P, Weill A, Zureik M, Clavel J, Dray-Spira R. Risk of childhood cancer among children born after assisted reproductive technologies – a nationwide cohort study in France. *JAMA Network Open* 2024;7(5):e249429.

Blangis F, Drouin J, Launay E, Miranda S, Zureik M, Cohen JF, Weill A, Dray-Spira R, Chalumeau M. Maternal, prenatal and postnatal risk factors for early child physical abuse: a French nationwide cohort study. *Lancet Reg Health Eur* 2024;42:100921.

Semenzato L, Le Vu S, Botton J, Bertrand M, Jabagi MJ, Drouin J, Cuenot F, Zores F, Dray-Spira R, Weill A, Zureik M. Long-Term Prognosis of Patients With Myocarditis Attributed to COVID-19 mRNA Vaccination, SARS-CoV-2 Infection, or Conventional Etiologies. *JAMA* 2024;332(16):1367-77. doi: 10.1001/jama.2024.16380.

Botton J, Bertrand M, Jabagi MJ, Duranteau L, Bouillon K, Drouin J, Semenzato L, Le Vu S, Weill A, Zureik M, Dray-Spira R. Risk of heavy menstrual bleeding following COVID-19 vaccination: A nationwide case-control study. *Vaccine* 2024;42(24):126252. doi: 10.1016/j.vaccine.2024.126252.

Le Vu S, Bertrand M, Semenzato L, Jabagi MJ, Botton J, Drouin J, Weill A, Dray-Spira R, Zureik M. Influence of mRNA Covid-19 vaccine dosing interval on the risk of myocarditis. *Nat Commun* 2024;15(1):7745. doi: 10.1038/s41467-024-52038-6.

Meyer A, Marty L, Drouin J, Weill A, Carbonnel F, Dray-Spira R. Risks of 75 major congenital malformations after in utero exposure to thiopurines and anti-TNF for maternal inflammatory bowel disease. *Clin Gastroenterol Hepatol* 2025:S1542-3565(25)00147-8. doi: 10.1016/j.cgh.2025.01.008.

Tubiana S, Rontani M, Herlemont P, Dray-Spira R, Zureik M, Weill A, Duval X, Burdet C. Long-term health outcomes following hospitalisation for COVID-19: a 30-month cohort analysis. *Infect Dis* 2025;1-11. doi: 10.1080/23744235.2025.2452862.

Bernard C, Drouin J, Le Vu S, Botton J, Semenzato L, Bertrand M, Jabagi MJ, Miranda S, Dray-Spira R, Weill A, Zureik M. COVID-19 vaccination rates among pregnant women in France: A nationwide cohort study. *Vaccine* 2025;53:127070. doi: 10.1016/j.vaccine.2025.127070.

Bamouni S, Billioti de Gage S, Desplas D, Valbousquet J, Lamant J, Joseph J-P, Dabis F, Viot A, Hessamfar M, Fakir S, Dray-Spira R, Carles M. Effect of extending PrEP initiation to primary care settings: a nationwide cohort study in France. *Lancet Public Health* 2025;S2468-2667(25)00062-3. doi: 10.1016/S2468-2667(25)00062-3.

Tran A, Zureik M, Sibiude J, Miranda S, Drouin J, Marty L, Weill A, Dray-Spira R, Duval X, Tubiana S. First-trimester exposure to macrolides and risk of major congenital malformations compared with amoxicillin: A French nationwide cohort study. *PLoS Med* 2025; 22(4): e1004576. doi: 10.1371/journal.pmed.1004576.

Shahriari P, Drouin J, Miranda S, Bougas N, Botton J, Dray-Spira R. Trends in Prenatal Exposure to Antiepileptic Medications Over the Past Decade: A Nationwide Study. *Neurology* 2025;105(4):e213933. doi: 10.1212/WNL.0000000000213933.

Bernard C, Duchemin T, Marty L, Drouin J, Miranda S, Semenzato L, Botton J, Chouchana L, Dray-Spira R, Weill A, Zureik M. First-trimester mRNA COVID-19 vaccination and risk of major congenital anomalies: a national cohort study. *JAMA Network Open* 2025;8(10):e2538039. doi: 10.1001/jamanetworkopen.2025.38039.

Poncet L, Roland N, Fortuna R, Hider-Mlynarz K, Dray-Spira R, Weill A, Zureik M. Contraceptive use in France in 2012 and 2022: a descriptive analysis of two repeated nationwide cross-sectional studies. *The Lancet Regional Health – Europe* 2025;59: 101488. doi: 10.1016/j.lanep.2025.101488.

## Projects

Memberships

Other Relevant Information