



Ongoing research projects

March 2019



Constances cohort
UMS 11 Inserm UVSQ Population-based epidemiological cohorts
Hôpital Paul Brousse, Bâtiment 15/16
16 avenue Paul Vaillant Couturier
94800 Villejuif
http://www.constances.fr/index_EN.php



CHRONIC DISEASES

Alcohol-related morbidities - A. Duburcq, CEMKA-EVAL, Lundbeck partnership, Bourg-La-Reine
Asthma - Chronic obstructive pulmonary disease overlap syndrome - B. Leynaert, Inserm¹, Paris
Blood inflammatory patterns and asthma - R. Nadif, Inserm¹, Villejuif
Body composition and respiratory diseases - R. Varraso, Inserm¹, Villejuif
Care pathways of type 2 diabetic patients - R. Olekhnovitch, Inserm¹, MSD partnership, Villejuif
Chronic airflow limitation and accelerated lung function decline - N. Roche, Paris Descartes University, Paris
Chronic pelvic pain - X. Fritel, Poitiers University, Poitiers
Depression and addiction - C. Lemogne, Paris Descartes University, Paris
Depression and brain biomarkers - S. Lehericy, Brain & Spin Institute, Paris
Depression and cardiovascular diseases - C. Lemogne, Paris Descartes University, Paris
Depression and genetic liability - N. Ramoz, Inserm¹, Paris
Dyspnea in respiratory diseases - T. Perez, Lille University Hospital, Lille
Epidemiology of Non-Alcoholic Fatty Liver Disease - L. Serfaty, Hautepierre Hospital, Strasbourg
Gestational Diabetes - N. Regnault, Santé publique France², Saint-Maurice
HIV-associated neurocognitive disorders - A. Makinson, IRD³, Montpellier
Myopia and sugar consumption - M. Raymond, CNRS⁴, Montpellier
Obstructive lung disease and HIV - A. Makinson, IRD³, Montpellier
Rheumatoid arthritis and statins - A. Thiebaut, Inserm¹, Paris
Risk and protective factors for Parkinson's disease - A. Elbaz, Inserm¹, Villejuif
Sexual activity in diabetic women - S. Czernichow, Ambroise-Paré Hospital, Boulogne-Billancourt
Sexual orientation and mental health - M.-J. Saurel-Cubizolles, Inserm¹, Paris
Urinary incontinence - X. Fritel, Poitiers University, Poitiers

OBSERVATION, SURVEILLANCE

JASMIN - Feasibility study for the enrollment of chronic diseases cohorts into the general population
Constances cohort - L. Meyer, Inserm¹, Le Kremlin-Bicêtre
Machine learning methods for identifying diseases in administrative databases – K. Bounebacher, Inserm¹,
Le Kremlin-Bicêtre
OFPA – Blood pressure Observatory in France - O. Grimaud, Pierre Louis Institute of Epidemiology and Public
Health, Paris
Prevalence and determinants of high blood pressure - J. Blacher, Paris Descartes University, Paris
Prevalence and determinants of visual impairments - C. Delcourt, Inserm¹, Bordeaux
PREVALEST - Prevalence estimation using data from individual surveys and administrative databases -
A. Guéguen, Inserm¹, Villejuif
Surveillance of chronic respiratory diseases - M.-C. Delmas, Santé publique France², Saint-Maurice
Surveillance of diabetes - S. Fosse-Edorh, Santé publique France², Saint-Maurice
Women's Health Barometer - M. Goldberg, Inserm¹, MSD partnership, Villejuif

¹ French National Institute of Health and Medical Research

² French National Public Health Agency

³ Institute for Development Research

⁴ National Center for Scientific Research

OCCUPATIONAL AND ENVIRONMENTAL RISKS

Air pollution and cognition - B. Jacquemin, Inserm¹, Villejuif

Air pollution and rhinitis - B. Jacquemin, Inserm¹, Villejuif

Arduous working conditions and aging - A. Descatha, Versailles Saint-Quentin-en-Yvelines University, Villejuif

CIG-ELECTRA – Trajectories of tobacco and e-cigarette use - M. Zins, Inserm¹, Villejuif

Cleaning agents and irritants and asthma - N. Le Moual, Inserm¹, Villejuif

COSET - Cohorts for occupational risks surveillance - I. Bonmarin, Santé publique France², Saint-Maurice

COSMOS France – Cohort of mobile phone users in France - J. Schüz, IARC³, Lyon

Critical employment histories, work stress and health functioning - J. Siegrist, University of Düsseldorf, Düsseldorf, Germany

Disinfectants Use among Nurses and Type II Diabetes Mellitus - K. Makris, Institute for Environmental and Public Health, Limassol, Cyprus

Effects of nature exposure on cognition and mental Health - C. Stenfors, University of Chicago, Chicago, USA

Job-exposure matrix for biomechanical factors - B. Evanoff, Washington University, Saint Louis, USA

Night shift work and risk of cancer - P. Guenel, Inserm¹, Villejuif

Night work and ischemic heart disease - S. Boini, INRS⁴, Vandœuvre-lès-Nancy

OCAPOL - Chronic exposure to air pollution and cancer - M. Goldberg, Inserm¹, Villejuif

Occupational risks among teachers and researchers - M.-N. Vercambre-Jacquot, MGEN Foundation for Public Health, Paris

Surveillance of chronic respiratory diseases in relation to work - Y. Iwatsubo, Santé publique France², Saint-Maurice

Unemployment and lifestyle - M. Plessz, Inra⁵, Paris

Work organization and maintaining employment - Y. Roquelaure, Angers University, Angers

SOCIAL DETERMINANTS OF HEALTH

Depression and social determinants - M. Melchior, Inserm¹, Paris

Depression and social outcomes - C. Lemogne, Paris Descartes University, Paris

Differences in health between men and women - E. Cambois, Ined⁶, Paris

Gender Differences in Self-Assessed Health and their Causes - E. Caroli, Paris Dauphine University, Paris

Immigrants health - E. Moreno Galbis, Aix-Marseille University, Les Milles

Relationships between unemployment and health - P. Meneton, Inserm¹, Paris

Suicidal behaviors and environmental factors – P. Courtet, Inserm¹, Montpellier

¹ French National Institute of Health and Medical Research

² French National Public Health Agency

³ International Agency for Research on Cancer

⁴ National Research of Safety Institute

⁵ French National Institute for Agricultural Research

⁶ French Institute for Demographic Studies

AGING

- Analysis of big data in ageing - S. Andrieu, Inserm¹, Toulouse
- Ascertainment of dementia cases - J.-F. Dartigues, Inserm¹, Bordeaux
- Determinants of Cognitive Ageing - A. Singh-Manoux, Inserm¹, Villejuif
- Determinants of Physical Aging in Middle-aged Adults - A. Elbaz, Inserm¹, Villejuif
- Drugs and cognitive ageing - T. Mura, Inserm¹, Montpellier
- Establishment of normative scores for standard cognitive scores - H. Amieva, Inserm¹, Bordeaux
- Frailty in the elderly - J. Ankri, Versailles Saint-Quentin-en-Yvelines University, Paris
- Impact of professional retirement on cognitive performances - H. Amieva, Inserm¹, Bordeaux
- Individual and contextual proxies of cognitive reserve - C. Berr, Inserm¹, Montpellier
- Working life occupation and cognitive ageing - C. Berr, Inserm¹, Montpellier

HEALTH CARE, PREVENTION, SCREENING, TREATMENTS

- Breast and cervical cancer screening among diabetic and obese women - G. Menvielle, Inserm¹, Paris
- Care pathway and quality of primary care - L. Rigal, Paris-Sud University, Le Kremlin-Bicêtre
- Consumption and seeking care in obese subjects - S. Czernichow, Ambroise-Paré Hospital, Boulogne-Billancourt
- Contraception used by women aged over 40 years - V. Ringa, Inserm¹, Villejuif
- Early screening of cirrhosis complications - T. Poynard, Pitié-Salpêtrière Hospital, Paris
- Infertility, course and treatment - E. de La Rochebrochard, Ined², Paris
- Management of menopause - V. Ringa, Inserm¹, Villejuif
- Screening for cervical cancer and contraception - P.-J. Saulnier, Poitiers University Hospital, Poitiers
- Serious adverse events in primary care – J.-L. Quenon, FORAP³, Pessac
- Waiting times for access to care - C. Marbot, DREES⁴, Paris

HEALTH ECONOMICS

- Association between sleep and productivity, depression and physical activity - L. Rochaix, Paris School of Economics, Paris
- Potentially avoidable hospitalizations – Comparison of individual and area level social risk adjustment – G. Mercier, Montpellier University Hospital, Montpellier
- Value of reductions in mortality risk measured using the value per statistical life - L. Rochaix, Paris School of Economics, Paris

¹ French National Institute of Health and Medical Research

² French Institute for Demographic Studies

³ French Federation of Regional and territorial agencies for the Improvement of Health practices and organizations

⁴ Research, Studies, Evaluation and Statistics Directorate, French Ministry of Solidarities and Health



Innovation in Atherothrombosis Science (iVASC)

Atherothrombosis (the process underlying all myocardial infarctions (MI), and many strokes) remains the first cause of death worldwide. iVASC (Innovations in Vascular Science) is a consortium of scientists, clinicians, epidemiologists and industry developing research in several directions: a large multicenter registry of MI linked to existing databases allowing long-term follow up of clinical outcomes and healthcare consumption, nested registry-based randomized trials and molecular imaging for identifying the origin of thrombosis in ischemic strokes of unknown cause and identifying surrogate imaging markers of atherosclerosis progression in apparently healthy individuals, the study of the association and impact of poor oral health and sleep-disordered breathing on atherothrombosis.

<http://www.ivasc.eu/>

CARPEM SIRIC - Cancer Research for Personalized Medicine

In order to develop and conduct integrated research programs and ensure the dissemination of research results, the National Cancer Institute (INCa) has launched calls for projects for the labeling of Integrated Cancer Research Site (SIRIC). Since 2011, eight SIRICs have been labeled. They offer cancer research new operating conditions in order to optimize and accelerate the production of knowledge and promote their dissemination and application in the treatment of cancer.

Two Paris-based hospitals, Hôpital européen Georges Pompidou and Cochin/Hôtel-Dieu, both linked to Paris Descartes University, are applying together for the SIRIC grant. Our integrative research program called CARPEM (for CANcer Research and PErsonalized Medicine) will associate more than 250 researchers and 100 hospital-based, cancer-dedicated physicians. Twenty-two research teams will take part in the SIRIC call for proposal.

<http://www.carpem.fr/>

ILIAD SIRIC - Imaging and longitudinal investigations to ameliorate decision making in multiple myeloma and breast cancer

The ILIAD (Imaging and Longitudinal Investigations to Multiple-Decision Decision Making in Multiple Myeloma and Breast Cancer) SIRIC is a regional consortium led by the Irecan health cooperation group, which associates Nantes University Hospital, the Oncology Institute and Angers University Hospital. It is partnered with INSERM (the teams of the Research Center for Cancer and Immunology Nantes-Angers-CRCINA- and the ESTER unit), the Arronax cyclotron, the Ecole Centrale de Nantes, the two universities of Nantes and Angers and Atlanpole. The Constances cohort is involved in studying problems related to maintaining and returning to work after cancer.

<http://www.chu-nantes.fr/cp-cancer-l-excellence-de-la-recherche-nantes-angers-reconnue-par-l-institut-national-du-cancer--71333.kjsp>

Estimation of the prevalence of whole life exposure of the French population to major occupational carcinogens for calculating the proportion of cancers attributable to occupational exposures (EPEVIE-PRO)

The main objective of this IARC project is to develop an innovative method for estimating whole life prevalence of exposure of the population to major occupational carcinogens in France, using existing data, and taking into account changes in use of occupational carcinogens in France since the 1960s. The data from the Constances Occupational exposures questionnaires contribute to this project.

The Integrated Datasets in Europe for Ageing Research (IDEAR)

The IDEAR consortium brings together leading occupational cohort and ageing studies from five European countries to explore the impact of working conditions on health and well-being in later life. This will be done using by state of the art statistical modelling in well-established prospective occupational cohort studies, longitudinal ageing studies and registry data from Denmark, Finland, France, Sweden and the UK. These studies represent countries in different welfare regimes and cover up to several decades from mid-life, retirement, early old age, and the beginning of older-old age.

<http://www.idear-net.net/>

The Biobanking and Biomolecular Resources Research Infrastructure – Large Prospective Cohorts (BBMRI-LPC)

BBMRI-LPC (Biobanking and Biomolecular Resources Research Infrastructure – Large Prospective Cohorts) is one of the largest biobanking and cohorts networks in Europe aiming to facilitate scientists' access to large prospective study sets on human health and disease. By improving harmonization, providing solutions for transnational access and networking, BBMRI-LPC will increase the utilization of large sample collections in research on human health.

<http://www.bbmri-lpc.org/>

The LIFEPAATH consortium (Horizon 2020)

The aim of the LIFEPAATH consortium is to investigate the biological pathways underlying social differences in healthy ageing. To fulfil such a purpose, LIFEPAATH brings together 17 population-based cohorts from 10 countries in order to show that healthy ageing is an achievable goal for society, to improve the understanding of the mechanisms through which healthy ageing pathways diverge by SES, by investigating life-course biological pathways using omic technologies, to examine the consequences of the current economic recession on health and the biology of ageing (and the consequent increase in social inequalities) and to provide updated, relevant and innovative evidence for healthy ageing policies.

<http://www.lifepathproject.eu/>

OMEGA-NET - Network on the Coordination and Harmonization of European Occupational Cohorts

Occupation and paid employment is an essential component of adult life and a major determinant of health and healthy ageing. The overarching concept of the Network on the Coordination and Harmonization of European Occupational Cohorts (OMEGA-NET) is to create a network to optimize the use of occupational, industrial, and population cohorts at the European level. OMEGA-NET will advance collaboration of existing cohorts with extensive contemporary information on employment and occupational exposures, coordinate harmonization of occupational exposure assessment, and facilitate an integrated research strategy for occupational health in Europe.

<http://omeganetcohorts.eu/>

Cosmos - International prospective cohort study of mobile phone users

There is continuing public and scientific interest in the possibility that exposure to radiofrequency (RF) electromagnetic fields (EMF) from mobile telephones or other wireless devices and applications might increase the risk of certain cancers or other diseases. The aim of Cosmos is to identify whether long term (beyond 10 years) RF exposure might pose some health risk.

The “Cosmos” study is a large prospective cohort study of mobile telephone users in six European countries: Denmark, France, Finland, Sweden, The Netherlands, UK, who will be followed up for 25+years. Information on mobile telephone use is collected prospectively through questionnaires and objective traffic data from network operators. Associations with disease risks will be studied by linking cohort members to existing disease registries, while changes in symptoms such as headache and sleep quality and of general well-being are assessed by questionnaires. Cosmos France, conducted by IARC, the French component of this European project relies on Constances participants and data.

<http://cosmos.iarc.fr/fr/Liens>

IHCC - International Hundred K+ Cohort Consortium

The International 100K Cohort Consortium (IHCC) was established in 2018 at the request of the leaders of the Heads of International Research Organizations (HIROs) through a collaboration between the Global Genomic Medicine Collaborative (G2MC) and the Global Alliance for Genomics and Health (GA4GH). The objective of IHCC is to create a global network for translational research that will utilize large cohorts to enhance the understanding of the biological and genetic basis of disease and improve clinical care and population health.

<https://ihcc.g2mc.org/>