



Centre  
**Virchow-Villermé**



Progress report of the Centre Virchow-Villermé  
for the academic year 2013-2014



*Avec le soutien des  
Investissements d'avenir*



The Centre Virchow-Villermé for Public Health Paris-Berlin (CVV) was initiated by the French and German government with the aim of gathering competences in the field of public health from France and Germany and thereby helping solve global health problems. The projects of CVV are designed to deliver concrete results with mutual benefits for France and Germany and to promote the exchange and teamwork of students and scientists from both sides of the Rhine.

The Centre Virchow-Villermé has been created and launched to assume a major responsibility in public health and global health by doing relevant research, by educating the health work force at all levels and by making recommendations on relevant public health issues for France, Germany and beyond.

During the academic year 2013/2014, CVV pursued activities in the areas of education, research and expertise, based on the following priorities:

- offering "virtual" massive open online courses (MOOCs) about public and global health topics dedicated to a broad public;
- conducting research with an interdisciplinary approach in the areas of big data, global and public health as well as MOOCs;
- offering expertise in global health;
- organizing lectures and workshops in order to encourage discussions and reflections on public and global health related issues;
- establishing national and international partnerships and collaborations in the academic as well as in the private sector.

In addition to the regular funding from Charité-Universitätsmedizin Berlin and Université Sorbonne Paris Cité (USPC), the activities described in this report have been realized thanks to different types of funding such as *Investissements d'avenir* (support of the French government), Chair Sanofi (donation), and French-German University (grant), Assistance Publique-Hôpitaux de Paris (Paris offices).

In 2014, a total of six applications for funding were submitted to the Robert-Bosch-Stiftung, Deutsch-Französische Hochschule (two projects), Ministry of Health (Bundesministerium für Gesundheit und Soziales), Stiftung Charité, and Deutsche Forschungsgemeinschaft (DFG) / Agence nationale de la Recherche (ANR). Three applications were successful, with a total of € 68.900, one is pending and two have been rejected.

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## I. Education

The Centre Virchow-Villermé focuses on the joint development of research and teaching skills in the field of public health.

The objective of the Centre Virchow-Villermé is to contribute to the dissemination of knowledge in the field of public/global health and open science by proposing educational opportunities and training through the development of Massive Open Online Courses (MOOC). Thanks to the funding through Sanofi and the support from the French state (IDEX), the Centre has already produced and launched MOOCs in collaboration with the National Institute for Research in Computer Science and Control (INRIA) and Université Paris Descartes.

The production of MOOCs by the Centre follows the road map established on the basis of an international survey of academic institutions of public and global health. 151 individuals from 26 countries (all continents) responded to the survey and a summary of 22 pages was prepared<sup>1</sup>. Propositions of the Centre for the production of MOOCs are evaluated by the executive committee every two months.

### A. Released MOOCs

4 MOOCs are available on the FUN platform (National French platform for digital education). They have been produced in collaboration with INRIA. All four MOOCs were in French, two of them were translated into English and one additionally into German. 12 000 participants followed the first sessions of these MOOCs. More than 30 nationalities were represented with an important participation of Francophone countries. These MOOCs will be re-launched in 2015.

- **MOOC “Introduction to Statistics”** Prof. Avner Bar Hen (1st semester 2014, 5669 participants)  
**Avner Bar-Hen** is Professor of Statistics at Université Paris Descartes. His MOOC started in January 2014. This introductory course to statistics imparts the essential skills necessary to understand and make decisions based on the analysis of digital data.
- **MOOC “Fighting against Outbreaks of Emerging Infectious Diseases”** Prof. Antoine Flahault (1st semester 2014, 1400 participants)  
**Antoine Flahault** is Professor at the Medical Faculty of Université Paris Descartes, Sorbonne Paris Cité and Co-director of the Centre Virchow-Villermé. His MOOC was launched in February 2014 and is based on a case study. It was designed to teach participants how to monitor emerging infectious diseases, but also how to control and prevent epidemics.
- **MOOC “SARS: “Revolutionizing” Global Governance of Epidemics?”** Prof. Patrick Zylberman (1st semester 2014, 1160 participants)  
**Patrick Zylberman**, University Professor, is Chair of Health History at EHESP School of Public Health. His MOOC started in April 2014. The course analyzes the SARS crisis of 2003 from a social science perspective, while integrating elements from anthropology, sociology, history of epidemics, international relations, health economics and crisis communication.
- **MOOC “Is the demographic bomb defused?”** Prof. Yves Charbit (1st semester 2014, 3848 participants)  
**Yves Charbit** is Professor of Demography at Université Paris Descartes and Director of CEPED. His MOOC started in May 2014 and discusses the worldwide decrease in fertility from a socio-demographic perspective based on theoretical elements and actual case studies performed in Africa, Asia and Latin America.

### B. Produced MOOCs

Two more MOOCs were produced in collaboration with INRIA. Because they are in German, dissemination will have to wait until the FUN platform is available in English.

- **MOOC “Evolutionary Medicine”** Prof. Detlev Ganten

In this “One-Session”-MOOC, Detlev Ganten builds a bridge from genetics to personalized medicine and demonstrates the implications for global health and the healthcare systems. A short introduction to the concept of the World Health Summit is also part of this MOOC.

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<sup>1</sup> « What do you want to learn in a MOOC dedicated to Public health/Global health ?, Delphi Survey from the Centre Virchow-Villermé for Public Health Paris-Berlin, Summary of results, October 2013.

- **MOOC "Public Health Challenges of Urbanisation with Focus on Megacities"** Prof. Alexander Krämer

In this "One-Session"-MOOC, Prof. Alexander Krämer from Bielefeld University explains how urbanisation, especially in megacities, influences health and what the public health challenges in these areas will be.

### C. MOOCs in process (with financial support of the Chair Sanofi Paris)

The Centre Virchow-Villermé invited three guest professors from abroad to produce the following four MOOCs, made possible with the financial support from the Chair Sanofi Paris.

- **MOOC « Applied regression analysis » (1) and MOOC « Applied logistic regression » (2)** Prof. Stanley Lemeshow / produced in collaboration with Université Paris Descartes

**Stanley Lemeshow**, Professor of Biostatistics and Founding Dean of the School of Public Health at Ohio State University prepared, with the help of the educational staff of the Centre Virchow-Villermé, two MOOCs which provide theoretical and practical training in statistical modelling, with particular emphasis on linear and multiple regression (MOOC 1) and logistic regression (MOOC 2), for epidemiologists, biostatisticians and professionals of related disciplines.

- **MOOC « Implementation Science »** Prof. Suzanne Havala Hobbs / produced in collaboration with Université Paris Descartes

**Suzanne Havala Hobbs** is Clinical Assistant Professor and Director of the Executive Doctoral Program in Health Leadership at the University of North Carolina in Chapel Hill. She prepared, with the help of the educational team of the Centre Virchow-Villermé, a MOOC which aims to introduce students to the field of implementation science and includes immediately applicable problem solving and analytical skills. Taking into account the trans-disciplinary nature of global health, the course integrates qualitative and quantitative tools from a broad array of fields.

- **MOOC « Health development and population »** Prof. Ian Pool

**Ian Pool**, Professor Emeritus of Demography at the University of Waikato in New Zealand, prepares, with the help of the educational staff of the Centre Virchow-Villermé, a MOOC that focuses on the demographic transition in the world. How have the size, age, life expectancy, morbidity and mortality of the population evolved in the past 200 years? How have these changes influenced the health systems, both in the North and in the South? Many questions will be raised in this MOOC. It is in English and will be available in 2015.

### D. MOOCs in process (with financial support of IDEX)

The Centre Virchow-Villermé submitted two proposals to the call for MOOC projects that was launched by Université Sorbonne Paris Cité in March of this year as part of the IDEX initiative (*Investissements d'avenir*).

**(1) The MOOC "Digital and Health Research: new practices and challenges"**, designed by the educational staff of the Centre Virchow-Villermé, and in partnership with the CFDIP (Doctoral Training Centre for Professional Integration), INRIA and Laval University Quebec, is intended for researchers, research professionals and future researchers wishing to follow the changing practices of health research, transformed by digital technology (managing massive data research, participatory research, open access and data, etc.). Using a hands-on approach, it will impart key skills to facilitate the handling of these digital tools (Data Driven Research). The distribution of this MOOC, dedicated to the French public, is scheduled for spring 2015. This proposal will receive 28 K€ in financial support from the French state.

**(2) The Mooc "Teaching the basics"** is designed by Avner Bar-Hen and Hubert Javaux. It aims at giving the basis for the statistical analysis of data. The free software will be used to apply the concept studied in this course. The second session is scheduled for January 2015. This proposal will receive 20 K€ in financial support from the French state.

### E. Summerschool 2015

The Centre Virchow-Villermé has applied at the "Deutsch-Französische Hochschule / Université Franco-Allemande" for a grant for a Summerschool in 2015 to teach about how to conceptualize, design, conduct, and analyse cohort studies. This Summerschool is supposed to be a German-French endeavour where German and French students/postdocs/researchers can apply and will be taught by German and French scientists who have expertise in epidemiology and/or public health. In case of funding, this first Summerschool 2015 will be held in Berlin.

## II. Research

Regarding research in public and global health, the approach of the Centre Virchow-Villermé is multidisciplinary, prospective and without borders. This interdisciplinary approach of the Centre enables the comprehension of complex issues in public and global health with all its different dimensions including epidemiology, social and environmental sciences, demography, statistics and history.

### A. Fields of research and publications

#### ▪ Big data in health

In and around public health there is a lot of talk about "big data" – very large sets of complex data that become difficult to process using database management tools. Big data is emerging in public health because the health sector is collecting large amounts of data every single day. The data comes from a variety of settings – clinical, billing, scheduling, drug usage, syndromes and so on. Unfortunately, in the past, a lot of that data was not leveraged to make population health more efficient. Now though, many researchers are proposing a shift to change that.

#### Chair Université Paris Descartes/CentraleSupélec

The Centre Virchow-Villermé could not intend or even pretend to explore big data in health without a strong partnership bringing in competencies from the fields of mathematics, informatics and data science. This has been done in 2014 in Paris, by looking for collaboration with a school of engineering, CentraleSupélec, which is very well known and was in turn looking for a partnership in the health sector. We have decided to look together for funding for a joint project, the formation of a Chair of Big Data and Health. Fund raising was almost achieved by September 2014, with one partner, Bull, having already signed an agreement (750 K€) for five years. Three other private partners expressed deep interest in the project and should join it by the end of the year. Hopefully, Assistance Publique-Hôpitaux de Paris will also join the consortium by the end of the year or beginning of January 2015. The aim is to hire a professor skilled in big data, with PhD students and postdocs able to initiate the momentum quickly.

#### Thesis preparation

Mathilde Pivette's thesis is funded by Celtipharm, a French data broker specialized in pharmaceutical sales data under a CIFRE program. She is a Paris Descartes student and member of EHESP network. The general scientific question of the thesis is: How can one improve the methods of indirect monitoring of diseases through the analysis of drug sales? The project focuses on two methodological issues: (i) The description of the spatial-temporal epidemiology of syndromes, (ii) The real-time monitoring of syndromes. These two axes are based on selected syndromes.

#### Publications

Zanotti-Fregonara, P., Hyoung Lyoo, C., Bar-Hen, A., Liow, J.-S., Zoghbi, S. S., Fujita, M., Innis, R. B. (2014). Application of calibrated image-derived input function to a clinical protocol. Accepted for publication in *Nuclear Medicine Communications*.

Pivette, M., Muller, J., Crépey, P., Bar-Hen, A. (2014). Surveillance of gastrointestinal disease in France using drug sales data. Accepted for publication in *Epidemics*.

Bar-Hen, A., Gey, S., Poggi, J.-M. (2014). Influence measures for CART Classification Trees. Accepted for publication in *Journal of Classification*.

Gogonel, A., Collet, J., Bar-Hen, A. (2014). Implementation of two Statistical Methods for Ensemble Prediction Systems in the Management of Electrical Systems. *CS-BIGS*, 5(2), 74-84.

Gogonel, A., Collet, J., Bar-Hen, A. (2013). Improving the calibration of the best member method using quantile regression to forecast extreme temperatures. *Nat. Hazards Earth Syst. Sci.*, 13, 1–8.

Picard, N., Bar-Hen, A. (2013). Cluster analysis for two-level data sets: Classifying tree species from individual measurements. *Ecological Informatics*, 15, 1-7.

Crépey, P., Pivette, M., Bar-Hen, A. (2013). Quantitative assessment of preventive behaviors in France during the Fukushima nuclear crisis. *PLoS ONE*, e58385, 10.1371/journal.pone.0058385.

Clavaud, C., Jourdain, R., Bar-Hen, A., Tichit, M., Bouchier, Ch., Pouradier, F., El Rawadi, Ch., Guillot, J., Ménard-Szczebara, F., Breton, L., Latgé, J.-P., Mouyna, I. (2013). Dandruff is associated with disequilibrium in the proportion of the major bacterial and fungal populations colonizing the scalp. *PLoS ONE*, 8(3), e58203, 10.1371/journal.pone.0058203.

Bar-Hen, A., Chadoeuf, J., Dessard, H., Monestiez, P. (2013). Estimating second order characteristics of point processes with known independent noise. *Statistics and Computing*, 23(3), 297-309.

## ▪ Public and Global Health

### *Global Public Health (Prof. Antoine Flahault)*

Global public health has two main dimensions. One is geographical, meaning that fields of interest of global health often cross borders. The second is related to integrated interdisciplinary research. Interdisciplinarity is due to the willingness to bring and implement solutions in complex situations. In health issues, most often solutions involve various sectors, such as agriculture, environment, finance, law, policy, education and not only health. Our publications try more and more to include scientific reports or viewpoints involving authors coming from several disciplines: virologists, epidemiologists, veterinarians, sociologists, economists, clinicians, entomologists, environmental scientists when appropriate. They are also addressing mainly topics dedicated to global public health. There are a couple of papers on methodology in public health too.

#### **Publications (Antoine Flahault)**

Andayi, F., Crepey, P., Kieffer, A., Salez, N., Abdo, A. A., Carrat, F., ... de Lamballerie, X. (2014). Determinants of individuals' risks to 2009 pandemic influenza virus infection at household level amongst Djibouti city residents--a CoPanFlu cross-sectional study. *Virology Journal*, 11, 13. doi:10.1186/1743-422X-11-13.

Ataya, N., Aluttis, C., Flahault, A., Atun, R., & Haines, A. (2014). Improving the assessment and attribution of effects of development assistance for health. *Lancet*, doi:10.1016/S0140-6736(14)60791-1.

Bellia, C., Setbon, M., Zylberman, P., & Flahault, A. (2013). Healthcare worker compliance with seasonal and pandemic influenza vaccination. *Influenza and Other Respiratory Viruses*, 7(2), 97-104. doi:10.1111/irv.12088.

Evans, D., Lobbedez, T., Verger, C., & Flahault, A. (2013). Would increasing centre volumes improve patient outcomes in peritoneal dialysis? A registry-based cohort and Monte Carlo simulation study. *BMJ Open*, 3(6), doi:10.1136/bmjopen-2013-003092.

Evans, D., Mallet, L., Flahault, A., Cothureau, C., Velazquez, S., Capron, L., & Lejoyeux, M. (2013). The importance of both workplace and private life factors in psychological distress: a large cross-sectional survey of French railway company employees. *Social Psychiatry and Psychiatric Epidemiology*, 48(8), 1211-1224. doi:10.1007/s00127-012-0605-7.

Flahault, A. (2013a). [Interpretation of epidemiologic studies]. *La Revue Du Praticien*, 63(8), 1153-1158.

Flahault, A. (2013b). [The methodology of experimental and clinical research]. *La Revue Du Praticien*, 63(10), 1451-1458.

Flahault, A., Azouvi, P., Jourdan, C., & Schnitzler, A. (2014). [Measurement of the health status of the population]. *La Revue Du Praticien*, 64(5), 717-726.

Flahault, A., & Etter, J.-F. (2014). Electronic cigarettes: it is urgent to promote them to save lives. *International Journal of Public Health*, doi:10.1007/s00038-014-0597-z.

Garchitorena, A., Roche, B., Kamgang, R., Ossomba, J., Babonneau, J., Landier, J., ... Marsollier, L. (2014). *Mycobacterium ulcerans* ecological dynamics and its association with freshwater ecosystems and aquatic communities: results from a 12-month environmental survey in Cameroon. *PLoS Neglected Tropical Diseases*, 8(5), e2879. doi:10.1371/journal.pntd.0002879.

Kieffer, A., Paboriboune, P., Crépey, P., Flaissier, B., Souvong, V., Steenkeste, N., ... de Lamballerie, X. (2013). 2009 A(H1N1) seroconversion rates and risk factors among the general population in Vientiane Capital, Laos. *PLoS One*, 8(4), e61909. doi:10.1371/journal.pone.0061909.

- Lapidus, N., de Lamballerie, X., Salez, N., Setbon, M., Delabre, R. M., Ferrari, P., ... Carrat, F. (2013). Factors associated with post-seasonal serological titer and risk factors for infection with the pandemic A/H1N1 virus in the French general population. *PLoS One*, 8(4), e60127. doi:10.1371/journal.pone.0060127.
- Rossignol, L., Pelat, C., Lambert, B., Flahault, A., Chartier-Kastler, E., & Hanslik, T. (2013). A method to assess seasonality of urinary tract infections based on medication sales and google trends. *PLoS One*, 8(10), e76020. doi:10.1371/journal.pone.0076020.
- Thiberville, S.-D., Boisson, V., Gaudart, J., Simon, F., Flahault, A., & de Lamballerie, X. (2013). Chikungunya fever: a clinical and virological investigation of outpatients on Reunion Island, South-West Indian Ocean. *PLoS Neglected Tropical Diseases*, 7(1), e2004. doi:10.1371/journal.pntd.0002004.
- Tulchinsky, T. H., Ramlawi, A., Abdeen, Z., Grotto, I., & Flahault, A. (2013). Polio lessons 2013: Israel, the West Bank, and Gaza. *Lancet*, 382(9905), 1611-1612. doi:10.1016/S0140-6736(13)62331-4.
- Zeboulon-Ktorza, N., Boelle, P. Y., Nahal, R. S., D'agostino, M. A., Vibert, J. F., Turbelin, C., ... Hanslik, T. (2013). Influence of environmental factors on disease activity in spondyloarthritis: a prospective cohort study. *The Journal of Rheumatology*, 40(4), 469-475. doi:10.3899/jrheum.121081.

### **Societal and medical challenges of aging**

Aging is a complex process, involving biological (physical) and emotional (psychological and cognitive) changes on an individual and societal level. As people age, the incidence and prevalence of many non-communicable chronic diseases increase. In this context, chronic kidney disease can be regarded as a perfect example in aging, as it is often associated with a substantial burden of disease.

#### **The Berlin Initiative Study (BIS), coordinated by PD Elke Schäffner**

The BIS is a population-based cohort study of older adults exploring the epidemiology of chronic kidney disease (CKD) in old age. It consists of a longitudinal part, containing bi-annual follow-up visits to catch incident cases of CKD and follow the natural course of disease and to assess associated risk factors as well as cardiovascular outcomes and death.

#### **Research project**

Germany and France are the two main players within Europe and direct neighbors who face very similar problems and transitions in terms of health and demographic aging. Despite these similarities only very little bilateral public health projects are being performed. The design of cohort studies as one of the key elements in epidemiology allows to address specific public health research questions and to combine effects of lifestyle, environment, genetic predisposition, and other risk factors on a large variety of disease endpoints.

In April 2014, Elke Schäffner from CVV and Tobias Kurth from University of Bordeaux jointly applied for funding from DFG/ANR with the project "GENERIC". Unfortunately this application was not successful but other options for funding will be checked.

#### **Publications (2013/2014)**

- Martus, P., Ebert, N., Jakob, O., van der Giet, M., Schaeffner, E. (2014). An efficient approach for glomerular filtration rate assessment in older adults. *Br J Clin Pharmacol*, 78(2), 384-392.
- Schaeffner, E., Ebert, N., Martus, P. (2014). External validation of the Berlin Initiative Study equations. *Am J Kidney Dis*, 64 (4), 658-659.
- Gill, J.S., Schaeffner, E., Chadban, S., Dong, J., Rose, C., Johnston, O., Gill, J. (2013). Quantification of Perioperative Risk in Elderly Kidney Transplant Recipients. *Am J Transplant*, 13(2), 427-432.

#### **Being reviewed**

- Douros, A., Ebert, N., Jakob, O., Martus, P., Kreutz, R., Schaeffner, E. (2014). Estimating kidney function and use of oral antidiabetic drugs in older adults. Under review in *European Journal of Clinical Pharmacology*.
- Schaeffner, E.S., Frei, U., Noeldeke, J., Rahmel, A., Rose, C., Gill, J. (2013). The Advanced Age Deceased Donor: Utilization and Outcomes in the European Senior Program and the United Network of Organ Sharing. Under revision at *J Am Soc Nephrol*.

#### **Not peer-reviewed**

- Banas, M., Amann, K., Schaeffner, E. (2014). Nierenveränderungen im Alter. *Nephrologe*, 9, 11-19.



Schäffner, E. (2014). Die Berliner Initiative Studie – ein interdisziplinäres Forschungsprojekt mit nephrologischen Kernfragestellungen. *Nieren- und Hochdruckkrankheiten*, 43, 334-337.

Schäffner, E. (2014). Welche GFR-Formel für Wen? *Nieren- und Hochdruckkrankheiten*, 43, 316-322.

#### **Book chapters**

Schaeffner, Elke. Assessing Glomerular Filtration Rate in Older Adults (Chapter 3). In *Managing Renal Injury in the Elderly Patient*, Springer, 2014.

Schaeffner, Elke and Ebert, Natalie. Management of acute and chronic kidney disease (Chapter 143). In *Oxford Textbook of Geriatric Medicine*. Oxford University Press. In preparation.

### **Climate change and Health**

Greenhouse gases (GHG) contribute significantly to climate change that represents one of the most important threats to global health. Although the exact health impacts of climate change are still being debated, they are likely to include heat stress, increased risk of vector-borne, waterborne and food-borne diseases. Thus, this topic plays a major role in environmental sciences as well as in global health and is at the heart of current debates.

#### **Research project**

Emissions of the major GHG are closely associated with food production and consumption. During the life-cycle of food numerous human-induced activities cause emissions of these gases. Thus, food consumption directly and indirectly results in GHG.

A future project, starting in October 2014, headed by Dr. Alan Dangour and lead by Dr. Rosemary Green, both lecturers at the London School of Hygiene and Tropical Medicine, in collaboration, amongst others, with the Centre Virchow-Villermé, will analyse data on agriculture, diet, food-related GHG emissions, water footprints and health in India. Stefanie Schütte, postdoctoral researcher financed through the Sanofi Chair, will work on this project.

#### **Working group**

Avner Bar-Hen, Anneliese Depoux, Antoine Flahault and Stefanie Schütte participate in an interdisciplinary working group entitled "Politiques de la terre" initiated by Université Sorbonne Paris Cité and supported by IDEX<sup>2</sup>. The scientific scope is to create a bridge between policy and research in the area of environmental sciences by covering various disciplines, from geophysics to social sciences.

### **Public mental Health**

Attention Deficit and Hyperactivity Disorder (ADHD) is a neurodevelopmental disorder associated with problems of inattention, hyperactivity and impulsiveness inappropriate for a child's age. It typically manifests itself before the age of 7 and often continues into adulthood. It is the most commonly diagnosed psychiatric disorder in children and adolescents. The Centre Virchow-Villermé proposes a study, in collaboration with Viviane Kovess Masfety, Professor of Epidemiology and Biostatistics at the EHESP School of Public Health, and the Robert-Koch-Institut in Berlin, to assess and compare the prevalence of ADHD in German and French schoolchildren through the analysis of parental strength and difficulties questionnaires (SDQ) collected during cross-sectional studies conducted in France (2005) and in Germany (KiGGS; 2003-2006). Furthermore, these data will enable us to analyze differences in access to care, treatments, and use of psychotropic medication between the two countries.

### **Occupational health**

We have initiated collaboration with SNCF, the French national railway company who asked CVV to co-supervise the PhD thesis of a former MPH student of EHESP, Dr Emminarie Lucas, within the doctoral network run by EHESP (Rennes). The topic is implementation science: trying to implement in a large company (180,000 employees) a prevention program aimed to control overweight and obesity, and prevent its consequences, mainly diabetes and hypertension. The program is holistic, with components dedicated to diet and physical activities, and high commitment at all levels within the company. First registration to this PhD program was recorded in 2014.

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<sup>2</sup> <http://politiquesdelaterre.fr/>

## ▪ Interdisciplinary health research

Interdisciplinary health research is becoming more important by combining various disciplines and approaches in order to understand complex public health issues.

### *Determinants of health - Ranking*

Stefanie Schütte, Juliane Knop, Stanley Lemeshow and Antoine Flahault, conducted a study, whose objective it was to define an index ranking of 30 European countries (EU, Switzerland and Norway) based on their performance of health and its determinants. Mobilizing multi-sectoral indicators, this ranking offers a comprehensive approach to the analysis of the health status of populations. It will help to gain a better understanding of how health systems are impacted by various health determinants and will assist policy makers in their decision-making.

#### **Being reviewed**

Schütte, S., Knop, J., Lemeshow, S., Flahault, A. (2014). Virchow-Villermé Ranking of Health Determinants in 30 European Countries. Under review in *European Journal of Public Health*.

### *Gender research*

Stefanie Schütte participated in a project on sex/gender sensitive research in epidemiology and medicine called “Epi goes gender<sup>3</sup>” that aims to promote a widespread and sustainable process to adopt sex and gender specific research methods and research cultures. This project was organized by the Leibniz Institute for Prevention Research and Epidemiology (BIPS) in Germany.

#### **Publication**

Schütte, S., Chastang, J.-F., Malard, L., Parent-Thirion, A., Vermeulen, G., & Niedhammer, I. (2014). Psychosocial working conditions and psychological well-being among employees in 34 European countries. *International Archives of Occupational and Environmental Health*, doi:10.1007/s00420-014-0930-0.

### *Demography and health in sub-Saharan Africa*

The rationale of the project is to undertake a double-sided research, on the demand side of fertility (factors contributing to high rates), and on the supply side (strengths or weaknesses and dysfunctions of national health systems)

- **Early fertility in sub-Saharan Africa**

In sub-Saharan Africa, early child bearing (children born to young women, often not married, aged 15-19 and sometimes below those ages) contributes to the observed high rates of fertility. In the context of underdevelopment, it has negative consequences on health and it increases maternal and infant mortalities. It is also a factor favourable to high risk abortions, domestic violence, while it hampers the education of women.

The proposed research project will focus on two diffusion processes: intergenerational changes; rising « malthusianism » among some social groups (women who are urban and educated wage earners). It will also focus on young mothers (those whose age at first birth is below median age at first birth in the country). For instance what are their sociodemographic characteristics, when compared to women who have had their first child after the median age? Demographic and Health Surveys allow international comparisons.

#### **Partnerships**

Project will be conducted in collaboration with Oxford University. Yves Charbit has also been approached by Ministries and/or Research centres of Francophone countries: Ivory Coast, Niger, Senegal, Benin, Guinea Conakry, Burkina Faso. Some MOU's have been signed. Project in collaboration with Oxford University

Potential funding: UNFPA, DHS, Welcome Trust, European Union.

- **Strengths and weaknesses of the national health system in Niger**

Research on fertility has been mostly focused on the demand side of reproductive health, while the demand side has been rarely explored by sociodemographers, partly under the pressure of programmatic needs and partly because they usually rely on national surveys of the populations or on client files

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<sup>3</sup> <http://www.epimed-gender.net/en/home.html>

In Niger, the improvement of health indicators has been stated by donors as conditionality to their funding programmes. The Centre was asked by the Ministry of health to help identify the strengths and weaknesses underlying the problem of reliability of reproductive health indicators.

Methodology: Phase 1. In the region of Maradi, the data of the health system are reputed to be good. An external validation is possible thanks to the DHS sample, once data are broken down by region. A situational analysis will also contribute to understand the functioning of the health system in that region. Phase 2. In Tillabéry and Dosso on the contrary, indicators are reputed unreliable. Factors explaining the dysfunctioning of the health system in these two regions will be investigated.

**Training component:** One PhD in demography

**Partnerships:** Ministry of Public Health, University Paris Descartes (Center Virchow-Villermé), University of Dijon.

### Publications

Charbit, Yves. *La population des pays en développement: idées reçues et réalités*. PUF, 2014.

Charbit, Yves, Borda, Susan and Brochard, Marie (eds.). *Interdisciplinarités émergentes en sciences humaines et sociales*. Colloque du CODOCE, L'Harmattan, 2014.

### Book chapters

Charbit, Yves and Kebe, Mababou. Croissance démographique, fécondité et éducation en Afrique subsaharienne. In *Politiques éducatives, émancipation humaine et inégalités sociales dans les pays en développement*, Fouad Nohra (ed.), 27-38, L'Harmattan, 2010.

Charbit, Yves. La crise de 1846-1850 en France. Quels enseignements pour l'Afrique? In *Marc-Antoine Pérouse de Montclos, Crises et migrations*, Véronique Petit, Nelly Robin, (dir.), 45-62, L'Harmattan, 2013.

Charbit, Yves. Culture, rationalité et démographie compréhensive. In *Hommage à Marshall Sahlins*, Erwan Dianteil (ed.), 187-200, 2012.

Charbit, Yves. Mettre en œuvre l'interdisciplinarité dans la recherche sur la fécondité et la migration, In *Interdisciplinarités émergentes en sciences humaines et sociales*, Yves Charbit, Susan Borda, Marie Brochard (eds.), Colloque du CODOCE, 9-18, 2014.

### History of health

History of health is a vast set of very diverse chapters. Infectious risk is the main focus here. Two present-day topics have been approached with various historical implications. First, the MOOC "SARS: "Revolutionizing" Global Governance of Epidemics?" (1st semester 2014) was intended to point out the crucial importance of globalization in present-day massive health developments such as a respiratory disease pandemic; it aimed also at questioning the new footing upon which international public health institutions such as the WHO stand nowadays in the governance of epidemics. Second, *Tempêtes microbiennes* explores health security and bioterror and anti-pandemic response scenarios that imposed new images of microbial threats which might affect the management of epidemic crises. History of epidemics has also been scrutinized (*Alternatives internationales*, 2014). Besides these contributions to the history of infectious risk, history of trauma is now a new subject of interest. Some preliminary exploration has been delivered in a keynote conference: "War, trauma and public health in an era of mass violence, 1931-2014", *After Shocks: War, Populations in Motion and Medicine in the Troubled Twentieth Century*, a symposium organized by the Munk School of Global Affairs, University of Toronto, September 12-13, 2014.

### Publications

Zylberman, P. (2014). Le délit d'imprudance sanitaire en France au XXe siècle. *Les tribunes de la santé/Sève*, 43, 93-10.

Zylberman, P. (2014). Il faut éviter les pièges de l'analogie historique, entretien avec Patrick Zylberman. *Les tribunes de la santé/Sève*, 41, 99-103.

Zylberman, P. (2014). Une réaction épidémique. *Alternatives internationales*, hors-série 14, 54-56.

Zylberman, Patrick. *Tempêtes microbiennes. Essai sur la politique de sécurité sanitaire dans le monde transatlantique*. Nrf Essais, Gallimard, 2013.

Gross Solomon, S., Murard, L., Zylberman, P. (eds.). *Shifting Boundaries of Public Health: Europe in the Twentieth Century*. The Rochester Studies in Medical History, University of Rochester Press, 2013.

Bellia C., Setbon M., Zylberman P., Flahault A. (2013). Health Care Worker Compliance with Seasonal and Pandemic Influenza Vaccination. *Influenza and Other Respiratory Viruses*, 7(2), 97-104.

## Expertise

2012-14: président du groupe de travail sur le diagnostic, le traitement et la prévention des borrélioses, Haut Conseil de la santé publique, Rapport en lecture à la DGS.

2012-13: membre du comité pour l'Évaluation du Plan national de lutte contre les hépatites B et C, 2009-12 (Haut Conseil de la santé publique), Paris, La documentation française, 2013, 143 p.

## ▪ Research on MOOCs

Producing MOOCs with a reflexive approach is the direction taken by the educational team of the Centre Virchow-Villermé.

The "MOOC factory" of the Centre Virchow-Villermé is a rich source of information for the researchers Anneliese Depoux (Université Paris Sorbonne-CELSA), Célya Gruson-Daniel (Université de technologie de Compiègne) and Karl-William Sherlaw (Université Rennes 2). Being both, MOOC producer and researcher from the field of Information and Communication Sciences, they observe parameters such as the teacher's position, body language and choice of words, to determine their influence on the production, the delivery and the reception of a MOOC.

### Publications

Aim, O., Depoux, A., Gruson-Daniel, C. (2014). A la conquête d'un contrat de communication: dans la fabrique d'un MOOC. *Conférence JOCAIR*, [disponible sur [http://eda.shs.univ-paris5.fr/jocair\\_2014/AIM\\_jocair14.pdf](http://eda.shs.univ-paris5.fr/jocair_2014/AIM_jocair14.pdf)].

Bar Hen, A. (2014). Mooc qui peut, Mooc qui veut. *Statistique et Enseignement*, 5(1), 91-99.

### Contribution to the drafting of a report

A working group was formed by FUN in spring 2014 to foster discussions and to brainstorm about data mining for research purposes as well as about ethical research practices and issues regarding the rights to confidentiality and anonymity. A report was prepared under the direction of Alain Mille and Victoria Pères-Labourdette Lembé. The team of the Centre Virchow-Villermé contributed to this work.

## B. Bilateral scientific activities

### Call for projects 2014

In February 2014, the Centre Virchow-Villermé launched its first call for projects to develop common research activities in public health between France and Germany. Open to students of any discipline who were affiliated with Université Sorbonne Paris Cité or Charité-Universitätsmedizin Berlin, this call aimed at supporting research projects directed towards the comparison of public health systems in France and Germany focusing on specific issues such as environmental health, urban health, urban policy, migration and impact on health, aging, prevention, technology and health, health care systems, as well as public health policy and management.

The Centre received 9 project proposals of which four were selected by the IAB, from the fields of sociology, psychosomatic medicine, political science and epidemiology.

For this call for projects, 100 000 Euros were put at the Centre's disposal as part of the IDEX initiative and transferred to CVV for the fiscal year 2013. The four projects selected by the IAB add up to 75 000 Euros, thus, the remaining 25 000 will be reserved for the financing of the next call for projects.

Name of applicant	Institution	Partner institution	Title of project	Budget (euros)
Felix Fischer	Charité	Université Paris Diderot	Development of a Comparable Health Status Assessment in French and German Populations	30 000,00
Judith Mueller (for a post-master position)	EHESP	Charité LMU Munich	The Value of Indirect Protection by Vaccination: A Tool for Evaluation of Population-level Preferences in France and Germany	5 000,00
Jérémy Geeraert	Université Paris 13	Centre Marc Bloch Berlin	Le social à l'hôpital au XXI <sup>e</sup> siècle – L'accès aux soins des populations démunies et sans couverture sociale en France et Allemagne	20 000,00
Matthias Brunn	Université Paris Diderot	TU Berlin	Pay-for-performance in France and Germany: Learning from others, why not from each other?	20 000,00

### Scientific conferences of the Centre Virchow-Villermé Paris

Two scientific seminars open to the public were organized in Paris in May and June 2014. Meant to be places of open scientific exchange, they promoted the presentation of research in progress and further discussions.

- **20 May 2014 (Hôtel Dieu, Paris)**

Two conferences were held on the occasion of the bi-annual meeting of the Centre's IAB members. One dealt with questions about global demography and the other one focused on challenges of aging.

- Keynote speaker Yves Charbit – USPC: “The decline of world fertility: the African case”
- Keynote speaker Elke Schäffner – Charité: “Societal and medical challenges of aging”

▪ **30 June 2014 (Hôtel Dieu, Paris)**

As part of the Follow-up Committee Meeting of the Sanofi Chair, the Centre Virchow-Villermé Paris organized its second scientific seminar. Two conferences related to the topics *implementation science* and *impact of diet on the environment* were held. Activities related to the three areas of the Centre were also presented.

- Welcome and introduction (Antoine Flahault – USPC, Philippe Tchong – Sanofi)
- *Implementation science*, presentation from Suzanne Hobbs (guest professor, holder of the Sanofi Chair, Virchow-Villermé/Paris)
- *Environment, health and diet*, presentation from Stefanie Schütte (Postdoctoral researcher, Sanofi Chair, Virchow-Villermé/Paris)
- Introduction of the next candidates for the Sanofi Chair, Virchow-Villermé/Paris (Antoine Flahault)
- MOOCs from CVV on the FUN platform: first impressions and experiences (Anneliese Depoux)
- Big data: Presentation of perspectives (Antoine Flahault and Avner Bar-Hen)
- Global Health: Influential role and participation of CVV in the 2014-2015 World Health Summit (Antoine Flahault and Stefanie Schütte)
- Results of the first call for projects of CVV Paris-Berlin (Ingrid Pfeifer) and presentation of projects by the chosen candidates

### III. Expertise in Global Health

#### *World Health Summit (WHS)*

Since its inauguration in 2009, the World Health Summit (WHS) has brought together opinion leaders from academia, politics, civil society, and the private sector to take responsibility for all health related challenges. It was based on the solid friendship between France and Germany and has been enjoying the high patronage of the President of the French Republic and the German Chancellor ever since. The WHS quickly became the pre-eminent forum for addressing global health issues and is effectively setting the global health agenda.

#### **October 20-22, 2013**

The WHS 2013 convened more than 1000 participants from over 80 countries. Another 1200 visitors from almost 90 countries followed the sessions digitally via live-stream on the Summit's website and social networks.

In addition to various involvements of CVV members during this 2013 Summit, it was the opportunity to sign officially the convention between Charité Universitätsmedizin Berlin, Paris Descartes (Université Sorbonne Paris Cité), and Sanofi to establish the Sanofi Chair (2 million euros, during 5 years).

#### **October 19-22, 2014**

The central topics of the WHS 2014 will be "Climate Change and Health", "Universal Health Coverage" and "Physical Activity and Healthy Ageing". The Centre Virchow-Villermé for Public Health Paris-Berlin will be hosting two sessions on global health with emphasis on French and German strategies; the first one will be on bilateral comparison of positions regarding the POST-2015 development debate, especially in the health sector, and the second one, a workshop, will focus on the national agendas of global health.

#### *Series of Workshops of Centre Virchow-Villermé Berlin: "comparison of the French and German Global Health Strategies"*

The knowledge of other nations' priorities and strategies in global health is a prerequisite for the development of concerted activities. With a series of high level workshops, integrated in the World Health Summit, the Centre Virchow-Villermé aims at gathering experts from ministries from France and Germany, from NGO's, from international universities and students to work out relevant questions. The results of the four different workshops will be published.

- ***Workshop N°1: Comparison of the French and German Position in the Health Sector regarding the POST-2015 Development Debate, Sunday, 19.10.2015***

The formulation of the Post-2015 development agenda and the agreement on a key set of sustainable development goals will shape the global health agenda in the years to come. The World Health Assembly has approved the priorities for a "Health Goal" but discussions are ongoing at the United Nations in New York. The Centre Virchow-Villermé for Public Health Paris and Berlin has invited experts from ministries from France and Germany, from the WHO and other international organizations, from NGO's, from universities, as well as students, to discuss a set of key questions in a round table discussion: "How have Germany and France contributed to the "Millennium Development Goals?", "What position does each country has in the Post 2015/Sustainable Development Goals (SDG)-debate?", "Who is involved on the national level?", "How is health anchored in the development policies of each country?", "How does each country support the global move towards universal coverage / social protection?"

- ***Workshop N°2: National Agendas for Global Health (Monday, 20.10.2014)***

Global health has gained more political importance and visibility in a number of OECD countries through the development of global health strategies. The Centre Virchow-Villermé for Public Health Paris-Berlin has invited experts from ministries from France and Germany, from the European Commission, from academia as well as NGOs and student representatives to participate in a round-table to discuss: "Which global health strategies does each country have?", "What are the political priorities of global health in each country?", "How is global health anchored in the ministries?", "What is each country's position regarding the WHO and the future of global health governance?", "In which areas of global health do Germany and France work together? How can they support the global health strategy of the European Union?"

- **Workshop N°3: Bilateral comparison regarding specific diseases (spring, 2015)**

The French and the German strategies in the field of communicable diseases such as AIDS (but also others such as Malaria, Ebola) as well as non-communicable diseases (the societal burden of hypertension, diabetes, obesity, cancer, and dementia) will be the focus of the third workshop, which will be held in Paris (German embassy) in spring 2015.

- **Workshop N°4: Bilateral comparison of education and research in public health (summer/fall 2015)**

The particularities of education, teaching and research in the fields of public health and epidemiology in France and in Germany will be discussed with experts in the last workshop of this series of workshops in Berlin (French embassy) in summer/fall 2015. The focus will be to capture how public health as a science is anchored in both countries' overall academic landscape with special emphasis on (1) the education system and (2) the research scene. This includes priorities in the funding of public health-related activities (education and research) in France and Germany by governmental and non-governmental institutions.

### **World Health Summit – Regional meeting Latin America, Sao Paulo, April 6-8, 2014**

It was the occasion to initiate the topic on climate change and health (with a conference from Antoine Flahault, Andy Haines and Stefanie Schütte), and to include this topic, during the M8 Alliance, as a major focus for the next WHS in Berlin in 2014.

### **M8 Alliance**

The M8 Alliance has welcomed a new member with Université de Genève, Switzerland, during the Sao Paulo M8 meeting. The candidature of Université Mohammed VI, Casablanca, Morocco, as a new African member, is expected for 2015.

### **Conférence Paris Climat 2015**

Paris will host a major conference of parties to the UN Framework Convention on Climate Change (COP 21) in December 2015. Hopefully this conference will be the occasion for parties to commit themselves to significantly reduce greenhouse gas emissions. Health should be on the agenda of the conference. Prior to the political conference, Paris will hold a scientific conference, at Unesco, in July 2015. Antoine Flahault has taken the lead in submitting a proposal regarding the organization of the health session for this conference, with a panel of international experts, including Prof Sir Andy Haines (LSHTM, the UK), and WHO HQ assuring the secretariat that preparations are being made. The application was made at the end of September 2014, with the support of the *Direction Générale de la Santé*.

### **School of Public Health and Health Systems Management in Morocco**

The Centre Virchow-Villermé is supporting the creation of a school of public health and health systems management (ESPMSS) at the newly created University Mohammed VI<sup>4</sup> in Morocco. The school has the objective to train highly-qualified health professionals in Morocco and the regions of North Africa, the Middle East and sub-Saharan Africa. Furthermore, it aims at promoting scientific knowledge for the improvement of health systems and to contribute to public health policies. The Centre is involved in the development of Master programs at ESPMSS and will collaborate in research areas such as big data and global health with the objective of strengthening the South-South movement of knowledge and to foster the development of good practices in the area. The ESPMSS will start its first Master's program in Health Management in fall 2014 and will open a Master's program in Public Health, entirely in English, in fall 2015.

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<sup>4</sup> <http://www.um6ss.ma/>



## IV. Other activities of the Centre

### *Blog on the Centre's website*

The members of the CVV team add regularly new blogs to the website. It takes a look at new and interesting events in public and global health, as well as news regarding the production of MOOCs. It is meant to inspire ideas and to encourage further reading about ongoing events and changes in progress.

33 posts were published during the academic year 2013-2014.

- **Blog of Antoine Flahault**
  - "Exercise to live a healthier life"
  - "What Makes Great Boards Great"
  - "Big Data and depression: Twitter as an early warning signal?"
  - "Big Data and Gastroenteritis: Twitter in pole position"
  - "Christmas 2013: Towards a Peace-Pipe?"
  - "From knowing to doing, in 20 lessons"
  - "Big Data: shortcuts"
  - "The Drony War"
  - "Big Data in Health: myths or facts?"
  - "Registrations to MOOCs dedicated to public health are open!"
  - "Should we eradicate poliomyelitis?"
  - "Cancer Screening Campaigns: to persuade or to convince?"
  - "Telehealth and The Elderly"
  - "Big Data in Health: threat or opportunities?"
  - "Tobacco: cease or die?"
  - "Bloomberg Ranking of Health Care Systems"
  - "Caregivers: endangered species to be protected!"
  - "A Welcome Address in 10 Lessons (in Public Health)"
- **MOOC**
  - "Réflexions post-MOOC du Professeur Antoine Flahault: 'Je sors renforcé dans ma conviction que ces techniques ne sont pas une passade.'" Célya Gruson-Daniel, September 5<sup>th</sup>, 2014
  - "Enseigner avec un MOOC? Retour d'expérience du Professeur Patrick Zylberman", Célya Gruson-Daniel, September 1st, 2014
  - "Passer des connaissances à l'action": retour sur l'Open Knowledge Festival 2014", Célya Gruson-Daniel, July 23<sup>rd</sup>, 2014
  - "Creative Commons at the Centre Virchow-Villermé", Célya Gruson-Daniel, July 1<sup>st</sup>, 2014
  - "2<sup>ème</sup> MOOC Camp Day de FUN: le Centre Virchow-Villermé reçoit le Prix du Public de Paris", Sophie Puig, July 1<sup>st</sup>, 2014
  - "Bilan du MOOC 'Contrôler une épidémie de maladies émergentes infectieuses' – deux moments forts." Karl-William Sherlaw, June 2<sup>nd</sup>, 2014
  - "Mini-colloque sur le SRAS – gestion d'une épidémie", Karl-William Sherlaw, May 27<sup>th</sup>, 2014
  - "Le colloque de la Sirène ou l'interdisciplinarité en action dans un MOOC », Karl William-Sherlaw, May 23<sup>rd</sup>, 2014
  - "MOOC – The Socratic Method put to the test?" Célya Gruson-Daniel, April 8<sup>th</sup>, 2014
  - Interview with Antoine Flahault: "A successful MOOC will be a MOOC where the professor is very discreet", Célya Gruson-Daniel, February 17<sup>th</sup>, 2014
  - Interview with Antoine Flahault "Filming a MOOC, a new teaching experience", Célya Gruson-Daniel, January 27<sup>th</sup>, 2014
  - "1st MOOCamp: the Centre Virchow-Villermé in the MOOC-factory", Célya Gruson-Daniel, January 13<sup>th</sup>, 2014
  - "Discussion with Gilles Dowek: behind the platform FUN with the MOOC Lab", Célya Gruson-Daniel, December 27<sup>th</sup>, 2013
  - Interview with Avner Bar-Hen: "MOOCs: a new gold rush?", Célya Gruson-Daniel, December 20<sup>th</sup>, 2013
  - "MOOCs in Public Health: challenges and stakes for a new educational experience", Célya Gruson-Daniel, November 25<sup>th</sup>, 2013
- **Other**
  - "20th May: Biannual meeting of the International Advisory Board of the Centre Virchow-Villermé", Célya Gruson-Daniel, May 19<sup>th</sup>, 2014

## Newsletter

In May 2014 the Centre launched its first Newsletter. Published every semester, the Newsletter is an important tool of communication to inform our stakeholders about the activities of the Centre. Aimed at following our initial goals of developing international and bi-national collaborations and of pooling knowledge in the field of public health, it takes a look at our on-going and future projects and researches. In addition to the online distribution, there will be a printed edition of Newsletter N°2, to be distributed at the World Health Summit and other events.

First edition is available online:

FR: <http://virchowvillerme.eu/fr/newsletter/>

DE: <http://virchowvillerme.eu/de/newsletter/>

## V. The organization of the Centre and its steering committees

### ▪ The team of the Centre Virchow-Villermé

#### Composition:

- Avner Bar Hen – Professor of Statistics, Université Paris Descartes
- Yves Charbit – Professor of Demography, Université Paris Descartes
- Estelle Duluc – International Project Coordinator, Université Paris Descartes
- Anneliese Depoux – Research Engineer, Executive Director – CVV Paris, Université Paris Sorbonne Cité
- Antoine Flahault – Professor of Public Health, Université Paris Descartes, Director of the Centre Virchow-Villermé Paris
- Célya Gruson-Daniel – Research Engineer, Université Paris Descartes
- Ingrid Pfeifer – Research Engineer, Université Paris Descartes
- Sophie Puig-Malet – Communications and Scientific coordination, Université Paris Descartes
- Elke Schäffner – PD in Public Health, Charité-Universitätsmedizin Berlin, Director of the Centre Virchow-Villermé Berlin
- Stefanie Schütte – Post-Doctoral Researcher, Université Paris Descartes, Sanofi Chair
- Karl-William Sherlaw – MOOC Production and Administration, Université Paris Descartes, Sanofi Chair
- Susanne Stöckemann – Project Coordination and Communications, Charité-Universitätsmedizin Berlin
- Patrick Zylberman – Professor of Health History, EHESP School of Public Health

### ▪ The executive (steering) committees

The Centre benefits from a team composed of members with different personalities. Combining different experiences and coming from diverse backgrounds, such as academic, administrative and professional, the team works together to support the Centre and its projects.

#### – CVV Paris

The executive (steering) committee meets every two months.

Composition: Régine Ducos (EHESP), Arnaud Ducruix (Université Paris Descartes), Corinne Alberti (Université Paris Diderot), Pierre Lombrail (Université Paris 13), Henri Bergeron et Aurélien Krejbich (Sciences Po), Gabrielle Costa de Beauregard (USPC).

#### – CVV Berlin

The committee meets twice a year.

Composition: Annette Grüters-Kieslich, Jan-Steffen Jürgensen, Peter Tinnemann, Fabian Hempel (all Charité).

### ▪ The International Advisory Board (IAB) of the Centre Virchow-Villermé

From the start, the Centre has been supported by a board composed of accomplished international members coming from different fields such as public and global health, research, education and technological innovation. Through the combined experience of its members, the IAB contributes to the definition of the Centre's areas of research and governance.

The members of the IAB meet two times per year; in the spring in Paris and in the fall in Berlin.

Composition: Detlev Ganten (President, World Health Summit, Charité – Universitätsmedizin Berlin), Jean-Yves Mérimod (President, Université Sorbonne Paris Cité), John Kimberly (University of Pennsylvania), Claude Kirchner (INRIA), Philippe Meyer (Académie des Sciences, Paris), Fred Paccaud (Faculté de médecine de l'Université de Lausanne), Paul Chew (Sanofi SA), Patricia Oster-Stierle (DFH-UFA), Peter Piot (LSHTM), Michael Klag (Johns Hopkins Bloomberg School of Public Health), Pierre Corvol (Collège de France), Jean-Francois Bach (Académie des sciences), Jörg Hacker (Leopoldina).