

# Aurélia Souares

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## Contact details

Heidelberg Institute of Global Health, Im Neuenheimer Feld 130.3, 69120 Heidelberg, Germany  
Tel: +49 6221 56 5044  
Fax: + 49 6221 56 5948  
[souares@uni-heidelberg.de](mailto:souares@uni-heidelberg.de)  
<http://www.ukl-hd/ph/HealthSystems>

## Summary

- 15 years of experience in research on access to health care and quality of care in developing countries, assessing the impact of financing innovations, in particular community-based health insurance, and impact on antimalarial policies on quality of care, conducting health system research and community surveys
- Fluent in French, English and German

## Education

**Habilitation candidate** **2013-**  
*Institute of Public Health, Heidelberg University* *Heidelberg, Germany*  
Habilitation project: “Comprehensive community effectiveness of health care” (Mentor: Prof. Rainer Sauerborn)  
Expected completion date: Winter 2019

**Doctorate of Public Health (with high honors)** **January 2007**  
*Pierre and Marie Curie University* *Paris, France*  
*Institute of Research for Development* *Dakar, Senegal*  
PhD dissertation: “Measure and factors related to compliance to antimalarial drugs combinations for children suffering of uncomplicated malaria in Senegal” (Supervisor: Dr. Jean-Yves Le Hesran)

**University Diploma in Medical Statistics** **2004**  
*Pierre and Marie Curie University* *Paris, France*

**University Diploma in Public Health (Health Promotion and Education)** **2004**  
*Henri Poincaré University* *Nancy, France*

**University Diploma in Malaria (Fight against Malaria)** **2003**  
*Institute of Tropical Medicine of Health for the Armed Forces Service* *Marseille, France*

**Master of Public Health in developing countries (with honors)** **2002**  
*Pierre and Marie Curie University* *Paris, France*  
*Institute of Research for Development* *Dakar, Senegal*  
Master’s thesis: “Outcomes of improved care on health centre activity in a rural area of Senegal”

**Bachelor of Medical and Social Sciences (with honors)** **2000**  
*Méditerranée University* *Marseille, France*

## Additional training

- Baden-Württemberg Certificate for University teachers, December 2010

- Longitudinal data analysis, University of Mannheim, Germany, June 2010
- NVivo software training, beginner and advanced, 2010
- Longitudinal data analysis, mixed models and GEE, Summer school of Epidemiology and Public Health, Paris Sud University, France, June 2009
- Logistic regression with Stata, Summer school of Epidemiology and Public Health, Paris Sud University, France, June 2003

## **Professional experience**

### **Research Associate**

**Since Jan. 2012**

*Institute of Public Health*

*Heidelberg, Germany*

- Co-coordination of a network of African and German partners in the context of the German Centre for Infection Research (Deutsche Zentrum für Infektion Forschung – DZIF): Lambaréné, Gabon; Nouna, Burkina Faso; Mbeya, Tanzania; Kumassi, Ghana
  - Development of population-based survey in the 3 sites where they are non-existing
  - Development of an innovative epidemiological method of continuous data collection for measurement of morbidity, analysis of cost-effectiveness and feasibility of the tool
- Scientific coordination and co-investigator of Impact Evaluation of Performance-based financing in Burkina Faso (World Bank)
  - Households and health facilities surveys in 24 districts of Burkina Faso
  - Evaluation of utilization and quality of care before and after intervention, randomized design

### **Lecturer**

**Since 2009**

*TropEd Master in International Health*

*Heidelberg, Germany*

- Lectures on: Qualitative methods, Mixed-methods, Health financing
- Coordinator of TropEd course “Public Health Anthropology” and “Mixed-methods”

*Heicumed, Teaching for medical students*

*Heidelberg, Germany*

- Lecture on: Global Health

*Master and Doctoral School of Public Health in Developing Countries*

*Paris, France*

- Lectures on: Access to Health Care

### **Post-doc Research Associate**

**Jan. 2007- Dec. 2011**

*Institute of Public Health*

*Heidelberg, Germany*

*Centre de Recherche en Santé de Nouna*

*Nouna, Burkina Faso*

- Coordinated field work activities for community-based health insurance randomized controlled trial
- Supervised 5 rounds of the Nouna Health District Household Survey, including study instrument development, sampling frame design, training for 60 interviewers, data collection for 18,000 respondents, supervision of the survey, coordination of data entry team of 26 members, and subsequent longitudinal data analysis
- Collected and analyzed quantitative and qualitative data, including household survey data, focus group discussions and in-depth interviews, assessing insurance enrollees’ behaviors towards utilizing modern and traditional health services and current barriers to accessing modern health care
- Coordinated the design and implementation of community wealth ranking method to select poorest households for subsidies for enrolment to health insurance
- Developed and tested tools for measurement of self-reported health

### **International Civil Volunteer**

**April 2004 - March 2006**

*Institute of Research for Development*

*Dakar, Senegal*

- Designed, prepared, and coordinated in all of its phases a study conducted to evaluate the adherence to the new antimalarial polychemiotherapy: amodiaquine/sulfadoxine -pyrimethamine for children suffering uncomplicated malaria”
- Research focused on the evaluation of the first year of implementation of the new treatment, using both quantitative and qualitative methods of analysis

## Health Educator

*Regional Committee of Health Education (CODES 13)*

Sept. 2000 – Oct. 2001

*Marseille, France*

- Worked as a health educator on several operation-research projects coordinated by the CODES, projects focused primarily on youth, education, and health

## Health Educator

*Calao & Espoir sans frontières*

Dec. 1999 - April 2001

*Senegal, Ivory Coast, Niger*

- Developed and evaluated health education interventions in public and Koranic schools

## Publications

47. Kiemde D, Ribeiro I<sup>§</sup>, Sanou S, Coulibaly B, Sié A, Ouedraogo AS, **Souares A**, Eibach D. Molecular characterization of beta-lactamase genes produced by community-acquired uropathogenic *Escherichia coli* in Nouna. *The Journal of Infection in Developing Countries* 2019. Accepted.

46. Yasmin F, Ali L, Banu B, Rasul FB, Sauerborn R, **Souares A**. Understanding patients' experience living with diabetes type 2 and effective disease management: a qualitative study following a mobile health intervention in Bangladesh. *BMC Health Services Research* 2020, 20:29. <https://doi.org/10.1186/s12913-019-4811-9>

45. Werner LK, Jabbarian J, Kagoné M, McMahon S, Lemp, **Souares A**, Fink G, De Neve JW. "Because at school, you can become somebody" – The perceived health and economic returns on secondary schooling in rural Burkina Faso. *Plos One* 2019. Dec 27;14(12):e0226911. doi: 10.1371/journal.pone.0226911. eCollection 2019.

44. De Allegri M, Lohmann J, **Souares A**, Hillebrecht M, Hamadou S, Hien H, Haidara O, Robyn PJ. Correction to: Responding to policy makers' evaluation needs: combining experimental and quasi-experimental approaches to estimate the impact of performance based financing in Burkina Faso. *BMC Health Serv Res.* 2019 Nov 28;19(1):903. doi: 10.1186/s12913-019-4714-9.

43. De Allegri M, Lohmann J, **Souares A**, Hillebrecht M, Hamadou S, Hien H, Haidara O, Robyn PJ. Responding to Policy Makers' Evaluation Needs: Combining Experimental and Quasi-Experimental Approaches to Estimate the Impact of Performance Based Financing in Burkina Faso. *BMC Health Serv Res.* 2019 Oct 22; 19(1):733. doi: 10.1186/s12913-019-4558-3.

42. Hillebrecht M, Klonner S, Sauerborn R, Ali S, **Souares A** (2019). The Demand for Health Insurance in a Poor Economy: Evidence from Burkina Faso. *Economic Development and Cultural Change*. Accepted. <https://doi.org/10.1086/706341>

41. Hillebrecht M, Klonner S, Pacere AN, **Souares A**. Community-Based versus Statistical Targeting of Anti-Poverty Programs: Evidence from Burkina Faso. *Journal of African Economies*. Accepted. doi: 10.1093/jafeco/ejz026

40. Nabieva J, **Souares A**. Factors influencing decision to seek health care: a qualitative study among labour-migrants' wives in northern Tajikistan. *BMC Pregnancy and Childbirth* 2019 19:7.

39. Koulidiati JL, De Allegri M, **Souares A**, Ouedraogo S, Hien H, Robyn PJ, Brenner S. Factors associated with effective coverage of child health services in Burkina Faso. *Trop Med Int Health.* 2018 Aug 17. doi: 10.1111/tmi.13140.

38. Koulidiati JL, Nesbitt RC, Ouedraogo N, Hien H, Robyn PJ, Compaoré P, **Souares A**<sup>§</sup>, Brenner S. Measuring effective coverage of curative child health services in rural Burkina Faso: a cross-sectional study. *BMJ Open*. 2018 May 31; 8(5): e020423.
37. Ouédraogo S, Ridde V, Atchessi N, **Souares A**, Koulidiati JL, Stoeffler Q, Zunzunegui MV. Characterisation of the rural indigent population in Burkina Faso: a screening tool for setting priority healthcare services in sub-Saharan Africa. *BMJ Open*. 2017 Oct 8;7(10): e013405. doi: 10.1136/bmjopen-2016-013405.
36. Lohmann J, **Souares A**, Tiendrebéogo J, Houlfort N, Robyn PJ, Somda SMA, De Allegri M. Measuring health workers' motivation composition: validation of a scale based on Self-Determination Theory in Burkina Faso. *Hum Resour Health*. 2017 May 22;15(1):33.
35. Yasmin F, Banu B, Zakir S, Sauerborn R, Ali L, **Souares A**. Positive influence of short message service and voice call interventions on adherence and health outcomes in case of chronic disease care: a systematic review. *BMC Medical Informatics and Decision Making* 2016 16: 46.
34. Oberländer L, Schleicher M, Savadogo G, **Souares A**, Sauerborn R, Klonner S. The effects of subsidised micro health insurance on insurance demand and welfare outcomes in rural Burkina Faso. *Savings and Development* 2015, No. Special Issue - UMM Master Awards 2014, 77-139.
33. Mohammed S, Aji B, Bermejo JL, **Souares A**, Dong H, Sauerborn R. User experience with a health insurance coverage and benefit-package access: implications for policy. Implementation towards expansion in Nigeria. *Health Policy Plan*. 2015 Aug 10.
32. Lietz H, Lingani M, Sié A, Sauerborn R, **Souares A**<sup>§</sup>, Tozan Y<sup>§</sup>. Measuring population health: costs of alternative survey approaches in the Nouna Health and Demographic Surveillance System in rural Burkina Faso. *Glob Health Action*. 2015 7; 8: 28330.
31. Schoeps A, Lietz H, Sié A, Savadogo G, De Allegri M, Müller O, Sauerborn R, Becher H<sup>§</sup>, **Souares A**<sup>§</sup>. Health Insurance Reduces Child Mortality in Rural Burkina Faso. *Global Health Action*, 2015 28; 8: 27327.
30. Savadogo G, **Souares A**, Sié A, Parmar D, Bibeau G, Sauerborn R. Using a community-based definition of poverty for targeting poor households for premium subsidies in the context of a community health insurance in Burkina Faso. *BMC Public Health*. 2015 6; 15(1): 84.
29. Ridde V, Turcotte-Tremblay AM, **Souares A**, Lohmann J, Zombré D, Koulidiati J, Yaogo M, Hien H, Hunt M, Zongo S, De Allegri M. Protocol for the process evaluation of interventions combining performance-based financing with health equity in Burkina Faso. *Implement Sci*. 2014 Oct 12;9(1):149.
28. Mahendradhata Y, **Souares A**, Phalkey R, Sauerborn R. Optimizing patient-centeredness in the transitions of healthcare systems in low- and middle-income countries. *BMC Health Serv Res*. 2014 Sep 12;14:386. doi: 10.1186/1472-6963-14-386.
27. Murray N, Jansarikij S, Olanratmanee P, Maskhao P, **Souares A**, Wilder-Smith A, Kittayapong P, Louis VR. Acceptability of impregnated school uniforms for dengue control in Thailand: a mixed methods approach. *Glob Health Action*. 2014 Sep 1;7:24887. doi: 10.3402/gha.v7.24887. eCollection 2014.
26. Schoeps A, **Souares A**, Niamba L, Diboulo E, Kynast-Wolf G, Müller O, Sié A, Becher H. Childhood Mortality and its Association with Household Wealth in Rural and Semi-urban Burkina Faso. *Trans R Soc Trop Med Hyg* 2014; 108(10):639-47.
25. Robyn PJ, Bärnighausen T, **Souares A**, Traoré A, Bicaba B, Sié A, Sauerborn R. Provider payment methods and health worker motivation in community-based health insurance: A mixed-methods study. *Soc Sci Med*. 2014 108: 223-36.

24. Mohammed S, **Souares A**, Bermejo JL, Sauerborn R, Dong H. Performance evaluation of a health insurance in Nigeria using optimal resource use: health care providers perspectives. *BMC Health Serv Res*. 2014 Mar 14; 14(1):127. doi: 10.1186/1472-6963-14-127.
23. Mohammed S, **Souares A**, Lorenzo BJ, Sufiyan MB, Sauerborn R, Dong H. Satisfaction with the level and type of resource use of a health insurance scheme in Nigeria: Health management organizations' perspectives. *Int J Health Plann Manage* 2013 Dec 3.
- 22 Mohammed S, Lorenzo BJ, **Souares A**, Sauerborn R, Dong H. Assessing responsiveness of health care services within a health insurance scheme in Nigeria: users' perspectives. *BMC Health Services Research* 2013 1; 13: 502.
21. Aji B, De Allegri M, **Souares A**, Sauerborn R. The impact of health insurance programs on out-of-pocket expenditures in Indonesia: An increase or a decrease? *Int J Environ Res Public Health*. 2013 18; 10(7): 2995-3013.
20. Robyn PJ, Bärnighausen T, **Souares A**, Savadogo G, Bicaba B, Sié A, Sauerborn R. Does enrollment status in community-based insurance lead to poorer quality of care? Evidence from Burkina Faso. *Int J Equity Health*. 2013 16; 12:31.
19. Ouedraogo LT, Tougri G, Sié A, Yé M, **Souares A**. Attitudes of health providers about the use of rapid diagnostic tests in the treatment of uncomplicated malaria in peripheral health centers in Burkina Faso. *Rev. CAMES-Série A* 2012; 13(Suppl 2):61-65.
18. Blomstedt Y, **Souares A**, Niamba L, Sie A, Weinehall L, Sauerborn R. Measuring self-reported health in low-income countries: piloting three instruments in semi-rural Burkina Faso. *Glob Health Action*. 2012; 5.
17. Parmar D, **Souares A**, Allegri MD, Savadogo G, Sauerborn R. Adverse selection in a community-based health insurance scheme in rural Africa: Implications for introducing targeted subsidies. *BMC Health Serv Res*. 2012 28; 12(1): 181.
16. Robyn PJ, Bärnighausen T, **Souares A**, Savadogo G, Bicaba B, Sié A, Sauerborn R. Health worker preferences for community-based health insurance payment mechanisms: a discrete choice experiment. *BMC Health Serv Res*. 2012 14; 12(1): 159.
15. De Allegri M, Louis VR, Tiendrébeogo J, **Souares A**, Yé M, Tozan Y, Jahn A, Mueller O. Moving towards universal coverage with malaria control interventions: achievements and challenges in rural Burkina Faso. *Int J Health Plann Manage*. 2012 28(1):102-21.
14. Parmar D, Reinhold S, **Souares A**, Savadogo G, Sauerborn R. Does community-based health insurance protect household assets? Evidence from rural Africa. *Health Serv Res*. 2012 47(2): 819-39.
13. Robyn PJ, Hill A, Liu Y, **Souares A**, Savadogo G, Sié A, Sauerborn R. Econometric analysis to evaluate the effect of community-based health insurance on reducing informal self-care in Burkina Faso. *Health Policy Plan*. 2012 27(2): 156-65.
12. Yrjö-Koskinen J, Kagoné M, **Souares A**, Sauerborn R. The influence of organizational culture on information use in decision making within government health services in rural Burkina Faso. *Nordic Journal of African Studies* 2010; 19(4): 250–73.
11. Malik AA, Yamamoto SS, **Souares A**, Malik Z, Sauerborn R. Motivational determinants among physicians in Lahore, Pakistan. *BMC Health Serv Res*. 2010 9; 10: 201.
10. Yamamoto S, **Souares A**, Sié A, Sauerborn R. Does recent contact with a health care provider make a difference in perceptions and knowledge of malaria? *J Trop Pediatr*. 2010 Mar 8.

9. **Souares A**, Savadogo G, Dong H, Parmar D, Sié A, Sauerborn R. Using community wealth ranking to identify the poor for subsidies: case study of community-based health insurance in Nouna, Burkina Faso. *Health and Social Care in the Community* 2010 18(4):363-8.
8. **Souares A**, Moulin P, Carlotti MP, Sarrassat S, Lalou R, Le Hesran JY. Self-reported data: a major tool to assess adherence to anti-malarial combination therapy among children in Senegal. *Malaria Journal* 2009 17; 8: 257.
7. **Souares A**, Lalou R, Senghor P, Le Hesran JY. Child age or weight: difficulties related to the prescription of the right dosage of antimalarial combinations to treat children in Senegal. *Trans R Soc Trop Med Hyg* 2009, 104(2): 104-9.
6. **Souares A**, Lalou R, Sene I, Sow D, Le Hesran JY. Factors related to compliance to anti-malarial drug combination: example of amodiaquine/sulphadoxine-pyrimethamine among children in rural Senegal. *Malaria Journal* 2009, 8:118.
5. Dong H, De Allegri M, Gnawali D, **Souares A**, Sauerborn R. Drop-out analysis of community-based health insurance membership at Nouna, Burkina Faso. *Health Policy* 2009, 92(2-3): 174-9
4. Gnawali DP, Pokhrel S, Sié A, Sanon, M, De Allegri M, **Souares A**, Dong H, Sauerborn R. The effect of community-based health insurance on the utilization of modern health care services: evidence from Burkina Faso. *Health policy* 2009, 90(2-3): 214-22.
3. **Souares A**, Lalou R, Sene I, Sow D, Senghor P, Le Hesran JY. Adherence and effectiveness of drug combination in curative treatment among children suffering uncomplicated malaria in rural Senegal. *Trans R Soc Trop Med Hyg* 2008, 102(8): 751-8.
2. **Souares A**, Lalou R, Sene I, Sow D, Le Hesran JY. Knowledge and practices among the health workers from the Thies region with regard to new malaria treatment policies. *Sante publique*, 2006, 2: 299-310.
1. **Souares A**, Chippaux JP, Le Hesran JY. Improvement of care offer: impact on the health centre activity in rural area Senegal. *Rev Epidemiol Sante Publique*, 2005, 53: 143-51.

### Students supervision

Name	Nationality	Discipline	Degree	Year	Co-supervision with
Dramane Kiemde	Burkina Faso	Public Health	PhD	2020	Pr Albrecht Jahn
Kyi Chit Ko	Malaysia	Public Health	Master	2019	
Rajendran Parthesarathy	India	Public Health	Master	2018	
Johanna Kompenhanns	Germany	Public Health	Dr. med	2017-	Pr Rainer Sauerborn
Mariam Seynou	Burkina Faso	Public Health	Dr. med	2017-	Pr Rainer Sauerborn
Zahia El Khoury	Lebanon	Public health	PhD	2015-	Dr Volker Winkler
Bilkis Banu	Bangladesh	Public Health	PhD	2015-	Pr Rainer Sauerborn
Marie-Jeanne Kampire	Rwanda	Public Health	Master	2014	
Jamila Nabieva	Tajikistan	Public Health	Master	2014	
Nikolai Menner	Germany	Public Health	Master	2014	

Henrike Lietz	Germany	Public Health	PhD	2012 - 2017	Pr Rainer Sauerborn
Farzana Yasmin	Bangladesh	Public Health	PhD	2012-2017	Pr Rainer Sauerborn
Zahia El Khoury	Lebanon	Public health	Master	2013	
Amy Rue	USA	Public Health	Master	2012	
Bayala Fernandette	Burkina Faso	Sociology	Maîtrise	2009	Dr Bationo Fernand
Ouedraogo Job	Burkina Faso	Medicine	Dr. med	2009	Pr Ouedraogo Luc
Epp-Graack Gundula	Germany	Public Health	Master	2008	
Bil Luai Than	Myanmar	Public Health	Master	2008	Dr Dong Hengjin

### **Research grants/Academic awards**

- Schlieben-Lange Programme Stipendium Feb to December 2013
- Selected by European Science Foundation among European young scientists for summer school on “Theory-Driven Evaluation and Interventions Studies”, Quantitative Methods in Social Sciences, European Science Foundation, Nicosia, University of Cyprus, September 2006
- Treille Foundation scholarship, awarded June 2006
- Pierre and Marie University scholarship, awarded September 2003

### **Skills**

- Survey design, development, implementation and analysis
- Project design, implementation and evaluation for health sector interventions
- Qualitative and quantitative data collection, management and analysis
- Team management in intercultural context
- Students supervision
- Proficient in the use of Microsoft Office applications, Endnote, Stata, Nvivo