

Contents

Forewords	V
Preface	
<i>Becher H., Kouyaté B.</i>	XI
1. Introduction	1
1.1 History of the CRSN: from a project to an institution	1
1.1.1 Twenty years of collaboration Heidelberg-Nouna <i>Diesfeld H.-J.</i>	1
1.1.2 Transformation into a national research center: The CRSN 1999 to today and the Heidelberg – Nouna collaboration <i>Kouyaté B., Sauerborn R.</i>	7
1.2 Nouna DSS Data structure, data exchange and routine epidemiologic procedures <i>Becher H., Stieglbauer G., Yé Y.</i>	17
1.3 INDEPTH Network: Generating Empirical Population and Health Data in Resource-constrained Countries in the Developing World <i>Sankoh O., Binka F.</i>	21
1.4 Ethics of biomedical research in developing countries <i>Müller O., Kouyaté B.</i>	33
1.5 Health information systems <i>Kruckeberg K.</i>	43
2. Clinical Research	51
2.1 Clinical Research	51
2.1.1 Malaria studies in Nouna, Burkina Faso <i>Müller O.</i>	51
2.1.2 Introduction of a program for prevention of transmission of human immunodeficiency virus from mother to infant in rural Burkina Faso: first operative results <i>Böhler T., Sarker, M., Ganamé, J., Coulibaly, B., Hofmann, J., Nagabila, Y., Boncoundou, J., Tebit, D.M., Snow, R.C., Kräusslich H.-G.</i>	55
2.2 Effect of zinc supplementation on malaria and other causes of morbidity in west African children: randomised double blind placebo controlled trial. <i>BMJ. 2001 Jun 30;322(7302):1567.</i> <i>Müller O., Becher H., van Zweeden A.B., Ye Y., Diallo D.A., Konate A.T., Gbangou A., Kouyaté B., Garenne M.</i>	65
2.3 Evaluation of a prototype long-lasting insecticide-treated mosquito net under field conditions in rural Burkina Faso. <i>Trans R Soc Trop Med Hyg. 2002 Sep-Oct;96(5):483-4.</i> <i>Müller O., Ido K., Traoré C.</i>	73

2.4	Severe anaemia in west African children: malaria or malnutrition? <i>Lancet.</i> 2003;361(9351):86-7. <i>Müller O., Traoré C., Jahn A., Becher H.</i>	77
2.5	Clinical efficacy of chloroquine in young children with uncomplicated falciparum malaria – a community-based study in rural Burkina Faso. <i>Trop Med Int Health.</i> 2003 Mar;8(3):202-3. <i>Müller O., Traoré C., Kouyaté B.</i>	79
2.6	The association between protein-energy malnutrition, malaria morbidity and all-cause mortality in West African children. <i>Trop Med Int Health.</i> 2003 Jun;8(6):507-11. <i>Müller O., Garenne M., Kouyaté B., Becher H.</i>	83
2.7	Effect of zinc supplementation on growth in West African children: a randomized double-blind placebo-controlled trial in rural Burkina Faso. <i>Int J Epidemiol.</i> 2003 Dec;32(6):1098-102. <i>Müller O., Garenne M., Reitmeier P., Baltussen van Zweeden A., Kouyaté B., Becher H.</i>	89
2.8	Efficacy of pyrimethamine-sulfadoxine in young children with uncomplicated falciparum malaria in rural Burkina Faso. <i>Malar J.</i> 2004 May 11;3(1):10. <i>Müller O., Traoré C., Kouyaté B.</i>	95
3	Epidemiological Studies	99
3.1	Epidemiological Studies, Introduction <i>Becher H., Hammer G., Kynast-Wolf G., Kouyaté B., Somé F.</i>	99
3.2	Clustering of childhood mortality in rural Burkina Faso. <i>Int J Epidemiol.</i> 2001 Jun;30(3):485-92. <i>Sankoh O.A., Ye Y., Sauerborn R., Müller O., Becher H.</i>	105
3.3	Community factors associated with malaria prevention by mosquito nets: an exploratory study in rural Burkina Faso. <i>Trop Med Int Health.</i> 2002 Mar;7(3):240-8. <i>Okrah J., Traoré C., Pale A., Sommerfeld J., Müller O.</i>	115
3.4	Mortality patterns, 1993-98, in a rural area of Burkina Faso, West Africa, based on the Nouna demographic surveillance system. <i>Trop Med Int Health.</i> 2002 Apr;7(4):349-56. <i>Kynast-Wolf G., Sankoh O.A., Gbangou A., Kouyaté B., Becher H.</i>	125
3.5	Patterns of adult and old-age mortality in rural Burkina Faso. <i>Journal of Public Health Medicine</i> 2003 Dec;25(4):372-6. <i>Sankoh, O.A., Kynast-Wolf G., Kouyaté B., Becher H.</i>	135
3.6	Malaria morbidity, treatment-seeking behaviour, and mortality in a cohort of young children in rural Burkina Faso. <i>Trop Med Int Health.</i> 2003 Apr;8(4):290-6. <i>Müller O., Traoré C., Becher H., Kouyaté B.</i>	141
3.7	Risk factors of infant and child mortality in rural Burkina Faso. <i>Bull WHO</i> 82(4): 265-274. <i>Becher H., Müller O., Jahn A., Gbangou A., Kynast-Wolf G., Kouyaté B.</i>	149

4	Health System Research	159
4.1	Introduction	159
4.2	Measuring the local burden of disease. A study of years of life lost in sub-Saharan Africa. <i>Int J Epidemiol.</i> 2001 30(3):501-8. <i>Würthwein R., Gbangou A., Sauerborn R., Schmidt C.M.</i>	161
4.3	Examining out-of-pocket expenditure on health care in Nouna, Burkina Faso: implications for health policy. <i>Trop Med Int Health.</i> 2002 7(2):187-96. <i>Mugisha F., Kouyaté B., Gbangou A., Sauerborn R.</i>	171
4.4	Perceived quality of care of primary health care services in Burkina Faso. <i>Health Policy Plan.</i> 2002;17(1):42-8. <i>Baltussen R.M., Ye Y., Haddad S., Sauerborn R.</i>	183
4.5	Informal risk-sharing arrangements (IRSAs) in rural Burkina Faso: lessons for the development of community-based insurance (CBI). <i>Int J Health Plann Manage.</i> 2002 17(2):147-63. <i>Sommerfeld J., Sanon M., Kouyaté B.A., Sauerborn R.</i>	191
4.6	Obtaining disability weights in rural Burkina Faso using a culturally adapted visual analogue scale <i>Baltussen R., Sanon M., Sommerfeld J., Würthwein R.</i>	209
4.7	Gender's effect on willingness-to-pay for community-based insurance in Burkina Faso. <i>Health Policy.</i> 2003 May;64(2):153-62. <i>Dong H., Kouyaté B., Snow R., Mugisha F., Sauerborn R.</i>	219
4.8	A comparison of the reliability of the take-it-or-leave-it and the bidding game approaches to estimating willingness-to-pay in a rural population in West Africa. <i>Soc Sci Med.</i> 2003 May;56(10):2181-9. <i>Dong H., Kouyaté B., Cairns J., Sauerborn R.</i>	231
4.9	Willingness-to-pay for community-based health insurance in Burkina Faso. <i>Health Economics</i> 2003 Oct;12(10):849-62. <i>Dong H.J., Kouyaté B., Cairns J., Mugisha F., Sauerborn R.</i>	241
4.10	Differential willingness of household heads to pay community-based health insurance premia for themselves and other household members. <i>Health Policy Plan.</i> 2004 19(2): 120-6. <i>Dong H., Kouyaté B., Cairns J., Sauerborn R.</i>	257
4.11	The two faces of enhancing utilization of health-care services: determinants of patient initiation and retention in rural Burkina Faso. <i>Bull WHO</i> 82 (8), August 2004, 572-579 <i>Mugisha F., Kouyaté B., Dong H., Chepng'eno G., Sauerborn R.</i>	265
4.12	The feasibility of community-based health insurance in Burkina Faso <i>Health Policy</i> 69 (2004) 45-53 <i>Dong H., Mugisha F., Gbangou A., Kouyaté B., Sauerborn R.</i>	275

5	Biochemistry-based health care research	285
5.1	Introduction <i>Coulibaly B., Eubel J., Gromer S., Schirmer H.</i>	285
5.2	Methylene blue as an antimalarial agent. Redox Rep. 2003;8(5):272-5. <i>Schirmer R.H., Coulibaly B., Stich A., Scheiwein M., Merkle H., Eubel J., Becker K., Becher H., Muller O., Zich T., Schiek W., Kouyaté B.</i>	293
5.3	Pharmacogenomic strategies against resistance development in microbial infections <i>Ziebuhr W., Xiao K., Coulibaly B., Schwarz R., Dandekar T.</i>	299
	Author index	303
	Adresses of authors of chapters	305