

CURRICULUM VITAE

John David Clemens, MD, PhD (Hon)

PERSONAL DATA

Professor and Vice-Chairman, Department
of Epidemiology and Founding Director,
Center for Global Infectious Diseases
UCLA School of Public Health
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Born: May 12, 1949, Chicago, Illinois
Citizenship: U.S.A.
Marital Status: Married, 2 children

EDUCATION AND TRAINING

1971	B.S. Stanford University
1976	M.D. Yale University

Internship (Internal Medicine)

1976-1977	Case Western Reserve University Affiliated Hospitals of Cleveland
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Residency (Internal Medicine)

1977-1979	Case Western Reserve University Affiliated Hospitals of Cleveland
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Fellowship (Clinical Epidemiology)

1979-1981	Robert Wood Johnson Clinical Scholars Program Yale University School of Medicine
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Licensure

1979-1988	Connecticut (#21510)
1988-	Maryland (#d37647)

Certification

1979	Diplomate, American Board of Internal Medicine
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PROFESSIONAL EXPERIENCE

1981-1985	Assistant Professor of Medicine Yale University School of Medicine
1983-1988	Research Scientist International Centre for Diarrhoeal Disease Research, Bangladesh
1988-1990	Associate Professor of Medicine (with academic tenure), University of Maryland School of Medicine Chief, Epidemiology Section, Center for Vaccine Development, University of Maryland School of Medicine
1990-1999	Senior Investigator, Division of Epidemiology, Statistics, and Prevention Research, National Institute of Child Health and Human Development
1990-1999	Chief, Epidemiology Branch, Division of Epidemiology, Statistics, and Prevention Research, National Institute of Child Health and Human Development
1996-1999	Chief, Section on Pediatric Infectious Diseases and Vaccinology, Division of Epidemiology, Statistics, and Prevention Research, National Institute of Child Health and Human Development
1996-2003	Adjunct Professor, Department of International Health, Johns Hopkins School of Public Health
1996-99	Director, World Health Organization Collaborating Center for Clinical Evaluation of Vaccines in Developing Countries (at NICHD)
1999-2011	Director-General, International Vaccine Institute, Seoul, Korea
2000-2011	Adjunct Professor of Public Health, Seoul National University School of Medicine
2011-	Professor and Vice-Chairman, Department of Epidemiology, and Founding

2012- Director, Center for Global Infectious Diseases, UCLA School of Public Health
Biotechnology Chair, Translational Health Science and Technology Institute of India, Delhi

HONORS, HONORARY LECTURES, AND BOARD MEMBERSHIPS

1970 Phi Beta Kappa, Stanford University

1979 Resident Research Award, Case Western Reserve University-Affiliated Hospitals of Cleveland

1989- Elected Member, American Epidemiological Society

1992- US Panel on Cholera and Related Bacterial Diarrheas, U.S.-Japan Cooperative Medical Science Program
Member: 1992-2007
Chairman: 2007-

1994 US Centers for Disease Control Citation for Outstanding Contribution to Public Health Education for Vibrio cholerae and Cholera

1995 US NIH Director's Award for Outstanding Research on Vaccine Evaluation

1999 Delta Omega (Honorary Public Health Society), Johns Hopkins Chapter

1999-2011 Member, Board of Trustees, International Vaccine Institute

2003-2010 Member, Board of Councilors, Pediatric Dengue Vaccine Initiative

2006 Beazeley Oration, Australian Society for Microbiology, Cairns, Australia

2006 Keynote Address, WHO Initiative for Vaccine Research Global Vaccine Research Forum, Bangkok, Thailand

2007 Golden Embroidered Silk Ball Award for Contributions Made by a Foreign Scientist to the People of Guangxi Province, China

2007-9 Member, GAVI Alliance Board, Representing Technical and Research Organizations

2007 Keynote Address, Vaccines for Enteric Diseases Meeting, Lisbon, Portugal

2007 Keynote Address, World Vaccine Congress, Singapore

2007 Ambassador, Research!America, Paul G. Rogers Society for Global Health

2008 Keynote Address, XVIIth International Congress for Tropical Medicine and Malaria, Jeju, Korea.

2009 Keynote Address, Vaccines for Enteric Diseases Meeting, Malaga, Spain

2009 NICED (National Institute of Cholera and Enteric Diseases of India) Award

2010 Sabin Gold Medal Award

2010 Asian Vaccine Executive of the Year Award, World Vaccine Congress, Singapore

2011 Keynote Address, Vaccines for Enteric Diseases Meeting, Cannes, France

2012 Honorary Doctor of Philosophy (Medicine), Soonchunhyang University, Korea

2012- Biotechnology Chair, Translational Health Science and Technology Institute of India

PROFESSIONAL ACTIVITIES

Societies

1980- Member, American College of Physicians

1989- Member, American Epidemiological Society

1990- Fellow, American College of Epidemiology

1992- Fellow, Infectious Diseases Society of America

Advisory Positions and Panels

- 1982 Temporary Advisor, World Health Organization; Committee on Tuberculosis/Leprosy, Geneva
- 1982 Research Foundation of Chicago; Committee on the Current Role of BCG Vaccination, Chicago
- 1986-88 World Health Organization Research Advisor to the All India Institute of Medical Sciences, New Delhi
- 1987 Temporary Advisor, World Health Organization; Committee on Future Research Strategies for Persistent Diarrhoea, Geneva
- 1987 UNICEF Cholera Vaccine Advisor, The National Institute of Hygiene and Epidemiology, Hanoi
- 1988 Temporary Advisor, World Health Organization; Committee on Cholera and ETEC Vaccines, Baltimore
- 1988 Advisor to the Oral Vaccine Cholera Field Trial, International Centre for Diarrhoeal Disease Research, Bangladesh
- 1989 Research Advisor to the Universities of Lagos, Ilorin, Enugu, and Nsuka, Nigeria, Harvard Institute for International Development-Applied Diarrheal Disease Research Project (USAID)
- 1989-92 Chief of Party, UNICEF (Egypt) Team to Advise UNICEF on Evaluating the Water-Sanitation Program in Upper Egypt
- 1991-3 Temporary Advisor, World Health Organization; International Advisory Group on Cholera Vaccine Field Trials, Geneva
- 1991-2010 Member, Steering Committee on Bacterial Enteric Vaccines, Initiative for Vaccine Research, World Health Organization, Geneva
- 1991 Member, NIAID Advisory Committee for Enteric Vaccine Evaluation Units
- 1992 Chief of Party, World Health Organization Review Team for the Field Trial of Cholera Vaccines in Colombia
- 1992 Research Advisor, World Health Organization, Institute for Biomedicine, Caracas, Venezuela

- 1992-6 Member, Steering Committee for the Catchment Field Trial of Quadravalent Rhesus Rotavirus Vaccine, Caracas, Venezuela
- 1993-6 Member, Data, Safety, and Monitoring Committee, NICHD Study on Human Growth Hormone Therapy for Childhood Cystinosis
- 1993-9 Member, NICHD Institutional Review Board
- 1993-7 Member, Steering Committee for the Field Trial of CVD103-HgR Vaccine against Cholera, Jakarta, Indonesia
- 1994 World Health Organization Review Team for the Field Trial of Oral Cholera Vaccines in Peru
- 1994-1997 Advisor, U.S. Institute of Medicine, Middle East Regional Cooperative Research on Hepatitis and Persistent Diarrhea
- 1995-2005 Member, Steering Committee on Epidemiology, Global Programme on Vaccines and Immunization, World Health Organization
- 1996 Member, World Health Organization Committee to Select Field Sites for Evaluation of Pneumococcal Conjugate Vaccines
- 1997 Member, World Health Organization Committee on Coordination of Field Trials of Pneumococcal Conjugate Vaccines in Developing Countries, Paris
- 1998 Advisor to PATH, Effectiveness Trial of Conjugate Hib Vaccine in Lombok, Indonesia
- 1998 Temporary Advisor, World Health Organization, Project Development Team for Field Trials of Typhoid Vaccines in Uzbekistan
- 1999 Partner representative, Children's Vaccine Program at PATH
- 1999-2003 Member, Global Steering Committee on Vaccine Safety, World Health Organization, Vaccines and other Biologicals Programme
- 2001-2 Chairman, Task Force on Research on the Alleged Increased Risk of Mortality among DTP-Vaccinated Infants in Developing Countries, World Health Organization,

Vaccines and other Biologicals

- 2003 Member, Advisory Committee on Research on Intermittent Prophylactic Treatment for Malaria, Bill and Melinda Gates Foundation
- 2005-7 Member, International Advisory Committee to Merck Vaccines on Global Use of Rotavirus Vaccines
- 2006 Member, UK Medical Research Council Expert Advisory Committee on Pandemic Influenza Research
- 2007-9 Member, Board of the GAVI Alliance (representing technical and research institutions)
- 2007 Member, UK Medical Research Council Expert Advisory Committee on Priorities for Vaccine Research
- 2007- Member, Advisory Council, Initiative for Vaccine Research, World Health Organization, Geneva
- 2011 Member, Advisory Committee to the Netherlands Government on the Future of the Netherlands Vaccine Institute
- 2012 Member, Advisory Committee on Creation of a Global Oral Cholera Vaccine Stockpile, World Health Organization
- 2012 Chairman, Working Group on Implementation Research, Initiative for Vaccine Research, World Health Organization, Geneva
- 2013 Member, Expert Committee on Dengue Vaccines, Initiative for Vaccine Research, World Health Organization, Geneva
- 2012 Temporary Advisor, World Health Organization, Development of a Strategy for Cholera Elimination in Zanzibar

EDITORIAL ACTIVITIES

Editorial Positions

Associate Editor, American Journal of Epidemiology (1997-2009)

Editorial Advisory Board, Journal of Health, Population, and Nutrition (2000-)

Editorial Board, Microbes and Infection (2000-)

Editorial Board, Biologicals (2005-)

Editorial Board, Expert Review of Vaccines (2007-)

Editorial Board, The Journal of Infection in Developing Countries (2009-)

Editorial Board, Emerging Microbes and Infections (2011-)

Ad Hoc Reviewer for Journals

American Journal of Clinical Nutrition
American Journal of Epidemiology
American Journal of Public Health
Annals of Internal Medicine
Bulletin of the World Health Organization
Epidemiology and Infection
Infection and Immunity
International Journal of Epidemiology
Journal of the American Medical Association
Journal of Clinical Epidemiology
Journal of Infectious Diseases
The Lancet
Medical Letter
The New England Journal of Medicine
Reviews of Infectious Diseases
Vaccine

Ad Hoc Reviewer for Granting Agencies

Applied Diarrheal Disease Research Project (USAID)
 Bill and Melinda Gates Foundation
 British Medical Research Council
 Control of Diarrheal Diseases Programme (WHO)
 Vaccines and Biologicals Programme (WHO)
 National Institutes of Health (US)
 Division of Nutrition, Department of Science and Technology (USAID)
 Thrasher Foundation
 The Volkswagen Foundation
 The Wellcome Trust

TEACHING

Advisees

Thomas Wierzba, Ph.D.: "Epidemiology of enterotoxigenic E. coli diarrhea in rural Egypt". Degree received from Johns

Hopkins University (JHU) School of Public Health, 1997.

Sunheang Shin: "Studies of rotavirus diarrhea in Vietnam". Ph.D. degree anticipated from London School of Hygiene and Tropical Medicine, 2011.

Eugene Shapiro, M.D.: Post-Doctoral Fellow, Robert Wood Johnson Clinical Scholars Program, Yale University, 1981-83

Jennifer Read, M.D., M.P.H. (JHU, 1991): Post-Doctoral Fellow, NICHD, 1991-93

William Powers, M.D., M.P.H. (JHU, 1991): Post-Doctoral Fellow, NICHD, 1991-93

Elizabeth Raymond, M.D., M.P.H. (JHU, 1991): Post-Doctoral Fellow, NICHD, 1991-93

Ruth Brenner, M.D., M.P.H. (JHU, 1992): Post-Doctoral Fellow, NICHD, 1992- 1998

Abdollah Naficy, M.D., M.P.H. (JHU, 1995): Post-Doctoral Fellow, NICHD, 1995- 1998

Brian Maskery, Ph.D. (UNC, 2009): Post-Doctoral Fellow, IVI, 2009-

Doctoral Committees

1991	Member, <u>Ad Hoc</u> Doctoral Review Committee, (F.P.L. van Loo) University of Amsterdam, The Netherlands
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Instruction

1981-1983	Robert Wood Johnson Clinical Scholars Program Faculty Member, Yale Medical School
1981-1983	General Medicine Inpatient Attending Physician, Yale-New Haven Hospital
1981-1983	Lecturer, Introduction to Clinical Medicine, Yale Medical School
	Lecturer, Infectious Diseases Epidemiology, Yale School of Public Health
1983-1988	Lecturer in courses on epidemiological methods for field research periodically given at the International Centre for Diarrhoeal

Disease Research, Bangladesh

1988-1989 Lecturer, Communicable Disease Epidemiology,
University of Maryland School of Medicine

Guest Lecturer, Infectious Disease
Epidemiology, Harvard School of Public
Health

1990 Attending Physician, General Medicine
Service, University of Maryland School of
Medicine

1991 Guest Lecturer, Department of International
Health, Johns Hopkins University School of
Public Health

1994-2003 Instructor, Annual WHO Course on
Biotechnology, Immunology, and Vaccinology.
Marcel Merieux Foundation, Annecy, France.

1997-2002 Instructor, Nordic School of Public Health,
Annual Summer Course on Infectious Diseases
Epidemiology.

1998 Instructor, Course on Vaccinology,
Center for Vaccine Development, University
of Maryland School of Medicine

2000-2011 Instructor, Annual IVI International Course
on Vaccinology for the Asia-Pacific Region

2000- Instructor, Annual International Course
on Advanced Vaccinology (ADVAC), Marcel
Merieux Foundation, Annecy, France

2004-2011 Instructor, Annual Course on Vaccinology,
Seoul National University School of Public
Health

2012 Instructor, Annual Course on Vaccinology,
Institut Pasteur, Paris

RECENT RESEARCH GRANT PARTICIPATION AS PRINCIPAL INVESTIGATOR

1999-2008	Bill and Melinda Gates Foundation	Diseases of the Most Impoverished Program Total Costs: \$40,000,000
2000-2004	PATH	An Assessment of Japanese Encephalitis Epidemiology and

		Vaccine Protection Total Costs: \$1,681,988
2001-2004	United Nations Development Programme	Development of Large- Linked Population Databases to Assess Vaccine Safety in Vietnam Total Costs: \$300,000
2002-2005	Rockefeller Foundation	Pediatric Dengue Vaccine Initiative Total Costs: \$2,000,000
2003-2008	Bill and Melinda Gates Foundation	Pediatric Dengue Vaccine Initiative Total Costs: \$55,000,000
2003-2006	UBS Foundation	ParaChina Project Total Costs: \$500,000
2006-2012	Bill and Melinda Gates Foundation	Cholera Vaccine Initiative Total Costs: \$22,107,940
2006-2009	University of Maryland	GEMS Project Total Costs: \$306,031
2007-2008	Ministry of Unification Republic of Korea	Pilot Immunization Campaign of the Japanese Encephalitis and <u>Haemophilus Influenzae</u> Type b Vaccine in Children in the Democratic People's Republic of Korea Total Costs: \$499,931
2007-2009	PATH	Field Trial of Rotavirus Reassortant Vaccine in Vietnam Total Costs: \$508,376
2007-2008	Merck & Co., Inc	Potential Association between Influenza and Pneumococcal Disease Total Costs: \$91,788
2007-2010	World Health Organization	Zanzibar Cholera Vaccine Project Total Costs: \$1,616,803

2008-2011	Swedish International Development Agency	-Typhoid Fever in Africa -Policy Unit Establishment -Panenteric Fever Vaccine Development -Novel PspA Vaccine -Immunomonitoring Lab (National Institute of Cholera and Enteric Diseases) Total Costs: SEK 24,000,000
2008-2015	Agence de Médecine	Supporting Independent Immunization and Vaccine Advisory Committees (SIVAC) Total Costs: \$3,342,932
2009	Ministry of Unification Republic of Korea	Haemophilus Influenza type b, Japanese Encephalitis in Democratic People's Republic of Korea Total Costs: \$492,097
2009	Bill and Melinda Gates Foundation	Indian Policymaker's Meeting Total Costs: \$46,952

PUBLICATIONS

Peer-Reviewed Articles

1. Clemens J, Feinstein AR. Calcium carbonate and constipation: A historical review of medical mythopoeia. Gastroenterology 72: 957-963, 1977.
2. Boyd N, Clemens J, Feinstein AR. Pre-therapeutic clinical morbidity in the prognostic staging of acute leukemia. Archives of Internal Medicine 139:324-328, 1979.
3. Boyd N, Coates E, Clemens J, Shalley K, Agout J, Chevallier C. Pre-treatment clinical morbidity as an index of the biologic potential of acute lymphoblastic leukemia of childhood. Leukemia Research 5:159-164, 1981.
4. Clemens J, Horwitz RI, Jaffe C, Feinstein AR, Stanton B. A controlled evaluation of endocarditis risk in patients with mitral valve prolapse. New England Journal of Medicine 307: 776-781, 1982.
5. Clemens J, Chuong J, Feinstein AR. The BCG controversy: A methodologic reappraisal. Journal of the American Medical Association 249:2362-2371, 1983.
6. Clemens J, Ahmed M, Butler T, Greenough W, Sack D, Stanton B.

Rotavirus diarrhoea: An expanding clinical spectrum. Journal of Tropical Medicine and Hygiene 83:119-122, 1983.

7. Clemens J, Stanton B. BCG prophylaxis against cancer: Methodologic evaluation of a continuing controversy. Journal of Chronic Diseases 37:45-54, 1984.

8. Clemens J, Shapiro E. The pneumococcal vaccine controversy: Are there alternatives to randomized clinical trials? Reviews of Infectious Disease 6:589-600, 1984.

9. Clemens J, Stanton B. How high is the risk of endocarditis in mitral valve prolapse? Journal of Cardiovascular Disease 9:459-465, 1984.

10. Stanton B, Baltimore R, Clemens J. Pediatric subacute bacterial endocarditis: 10 years experience at the Yale-New Haven Hospital. American Journal of Diseases of Children 138:720-725, 1984.

11. Shapiro E, Clemens J. Pneumococcal vaccine efficacy against serious pneumococcal infections in patients with vaccine indications. Annals of Internal Medicine 101:325-330, 1984.

12. Clemens J, Ransohoff D. Pre-dental antibiotic prophylaxis for mitral valve prolapse: A quantitative analysis. Journal of Chronic Diseases 37:531-544, 1984.

13. Clemens J, Horwitz R. Longitudinal evaluation of therapy. Biomedicine and Pharmacotherapy 38:440-444, 1984.

14. Stanton B, Clemens J, Koblinsky M, Khair T. The urban volunteer programme in Dhaka: A community-based primary health care and research initiative. Tropical and Geographical Medicine 37:183-189, 1985.

15. Stanton B, Clemens J, Shahid N, Khair T. Follow-up of children discharged from a hospital after treatment for diarrhoea in urban Bangladesh. Tropical and Geographic Medicine 38:113-118, 1986.

16. Clemens J, Stanton B, Holabird N, Cartwright S. Equivocal test results and prognostic staging uncertainties in the evaluation of patients with cancer of the prostate. Yale Journal of Biology and Medicine 59:1-9, 1986.

17. Clemens J, Stanton B, Stoll B, Shahid N, Banu H, Chowdhury AKM. Breastfeeding as a determinant of severity in shigellosis: Evidence for protection throughout the first three years of life in Bangladeshi children. American Journal of Epidemiology 123:710-720, 1986.

18. Stanton B, Clemens J. Soiled saris - A vector of disease

transmission? Transactions of the Royal Society of Tropical Medicine and Hygiene 80:485-488, 1986.

19. Clemens J, Jertborn M, Sack D, Stanton B, Holmgren J, Khan MR, and Huda S. Effect of neutralization of gastric acid on immune responses to oral B subunit killed whole-cell cholera vaccine. Journal of Infectious Diseases 154:175-178, 1986.

20. Stanton B, Clemens J, Wojtyniak B, and Khair T. Risk factors for developing mild nutritional blindness in urban Bangladesh. American Journal of Diseases of Children 140:584-588, 1986.

21. Clemens J, Feinstein AR, Holabird N, Cartwright S. A new clinico-anatomic staging system for evaluating prognosis and treatment of prostatic cancer. Journal of Chronic Diseases 39:913-928, 1986.

22. Clemens J, Sack D, Harris J, Chakraborty J, Khan MR, Stanton B, Kay BA, Khan MU, Yunus M, Atkinson W, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh. Lancet 2:124-127, 1986.

23. Stanton B, Clemens J. Socioeconomic variables and rates of diarrhoeal episodes in Bangladesh. Transactions of the Royal Society of Tropical Medicine and Hygiene 81:270-273, 1987.

24. Clemens J, Stanton B. An educational intervention for altering water-sanitation behaviours to reduce childhood diarrhoea in Bangladesh: I. Application of the case-control method for development of an intervention. American Journal of Epidemiology 125:284-291, 1987.

25. Stanton B, Clemens J. An educational intervention for altering water-sanitation behaviours to reduce childhood diarrhoea in Bangladesh: II. A randomized trial to assess the impact of the intervention on hygienic behaviours and diarrhoea rates. American Journal of Epidemiology 125:292-301, 1987.

26. Stanton B, Clemens J, Aziz KMA, Rahaman M. Comparability of responses to 24 hour recall and knowledge-attitude practice questionnaire and direct observations in water and sanitation studies. Bulletin of the World Health Organization 65:217-222, 1987.

27. Clemens J, Stanton B, Chakraborty J, Sack D, Khan MR, Huda S, Ahmed F, Harris J, Yunus M, Khan MU, Svennerholm A-M, Jertborn M, Holmgren J. B subunit-whole cell and whole cell-only killed oral vaccines against cholera: Studies on reactogenicity and immunogenicity. Journal of Infectious Diseases 155:79-85, 1987.

28. Stanton B, Clemens J, Aziz KMA, Khatun K, Ahmed S, Khatun J. Comparability of results obtained by 2-week home maintained diarrhoeal calendar with 2-week diarrhoeal recall. International Journal of Epidemiology 16:595-601, 1987.

29. Stanton B, Clemens J, Khair T, Khatun K, Jahan DA. An educational intervention for altering water-sanitation behaviours to reduce childhood diarrhoea in urban Bangladesh: Formulation, preparation, and delivery of the educational intervention. Social Science in Medicine 24:275-283, 1987.
30. Stanton B, Rowland M, Clemens J. Oral rehydration solution - too little or too much?. Lancet 1:33-34, 1987.
31. Smith DG, Clemens J, Crede W, Harvey M, Gracely EJ. The impact of multiple comparisons in randomized clinical trials. American Journal of Medicine 83:545-550, 1987.
32. Holmgren J, Svennerholm AM, Clemens J, Sack D, Black R, Levine M. An oral B subunit-whole cell vaccine against cholera: from concept to successful field trial. Advances in Experimental Medicine and Biology 216B:1649-1660, 1987.
33. Stanton B, Phillips N, Clemens J, Wroot B, Gafur Z, Fleischman J, Khair T. An urban nutrition education and rehabilitation centre: A description of the programme and change in nutritional status of children who were enrolled. Tropical and Geographic Medicine 39:287-295, 1987.
34. Clemens JD, Sack D, Harris JR, Chakraborty J, Khan MR, Stanton B, Ali M, Ahmed F, Yunus M, Kay B, Khan MU, Rao MR, Svennerholm A-M, Holmgren J. Impact of B subunit killed whole-cell and killed whole-cell-only oral vaccines against cholera upon treated diarrhoeal illness and mortality in an area endemic for cholera. Lancet 2:1375-1378, 1988.
35. Clemens J, Harris J, Sack D, Chakraborty J, Ahmed F, Stanton B, Khan MU, Kay BA, Huda N, Khan MR, Yunus M, Rao MR, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh: Results of one year of follow-up. Journal of Infectious Diseases 158:60-69, 1988.
36. Stanton B, Clemens J, Khair T. An educational intervention for altering water-sanitation behaviours to reduce childhood diarrhea in urban Bangladesh: IV. Impact on nutritional status. American Journal of Clinical Nutrition 48:1166-72, 1988.
37. Clemens J, Sack D, Harris J, Chakraborty J, Neogy P, Stanton B, Huda N, Khan MU, Kay BA, Khan MR, Ansaruzzaman M, Yunus M, Rao MR, Svennerholm A-M, Holmgren J. Cross-protection by B subunit-whole cell cholera vaccine against diarrhoea associated with heat labile toxin-producing enterotoxigenic Escherichia coli: Results of a large-scale field trial. Journal of Infectious Diseases 158:372-377, 1988.
38. Clemens JD, Harris JR, Sack DA, Chakraborty J, Ahmed F, Stanton BF, Huda N, Khan MR, Khan MU, Kay BA, Neogi PK, Yunus M, Rao MR, Svennerholm A-M, Holmgren J. Field trial of oral cholera

vaccines in Bangladesh. Southeast Asian Journal of Tropical Medicine and Public Health 19:417-22, 1988.

39. Clemens J, Stanton B, Chakraborty J, Chowdhury S, Rao MR, Ali M, Zimicki S, Wojtyniak B. Measles vaccination and childhood mortality in rural Bangladesh. American Journal of Epidemiology 128:1330-1339, 1988.

40. Stanton B, Clemens J. The influence of gender as a determinant of urban childhood mortality in Bangladesh. International Journal of Epidemiology 17:129-135, 1988.

41. Clemens J, Harris J, Sack D, Huda N, Chowdhury S, Ali M, Rao MR. Discontinuation of breast-feeding during episodes of diarrhoea in rural Bangladeshi children. Transactions of the Royal Society of Tropical Medicine and Hygiene 82: 779-783, 1988.

42. Monsur KA, Clemens J, Sack D, Miah AL, Begum YA. Phage pattern for tracing heat labile toxin positive Escherichia coli. The Journal of Medical Microbiology 28: 43-7; 1989.

43. Clemens JD, Harris JR, Kay BA, Chakraborty J, Sack DA, Ansaruzzaman M, Rahman R, Stanton BF, Khan MU, Khan MR, Yunus M, Rao MR, Ciznar I, Svennerholm AM, Holmgren J. Oral cholera vaccines containing B subunit-killed whole cells and killed whole cells-only: II. Field evaluation of cross-protection against other members of the Vibrionaceae family. Vaccine 7:111-120, 1989.

44. Ciznar I, Hussain N, Kay B, Ahsan C, Clemens J, Sack D. Oral cholera vaccines containing B-subunit-killed whole cells and killed whole cells only: I. Cross-reacting antigens of members of Vibrio cholerae and the vaccines. Vaccine 7:111-106, 1989.

45. Clemens J, Stanton B, Harris J, Chakraborty J, Sack D, Rao M, Ahmed F, Ansaruzaman M, Yunus M. Exclusion of clinically atypical or microbiologically mixed diarrhoeal episodes from outcome events in a field trial of oral cholera vaccines. International Journal of Epidemiology 18: 440-5, 1989.

46. Clemens J, Sack D, Harris J, Chakraborty J, Khan MR, Huda S, Ahmed F, Gomes J, Rao M, Svennerholm A-M, Holmgren J. ABO blood groups and cholera: New observations on specificity of risk and modification of vaccine efficacy. Journal of Infectious Diseases 159:770-773, 1989.

47. Holmgren J, Clemens J, Sack D, Svennerholm A-M. New cholera vaccines. Vaccine 7:94-96, 1989.

48. Holmgren J, Clemens J, Sack D, Sanchez J, Svennerholm A-M. Oral immunization against cholera. Current Topics in Microbiology and Immunology 146:197-203, 1989.

49. Stanton B, Clemens J. Users' fees for health care in

developing countries: a case study of Bangladesh. Social Science in Medicine 29: 1199-1205, 1989.

50. Bhandari N, Bhan MK, Sazawal S, Clemens J, Bhutnagar S, Khoshoo V. Association of antecedent malnutrition with persistent diarrhea: a case-control study. British Medical Journal 298: 1284-6, 1989.

51. Bhan MK, Bhandari N, Sazawal S, Clemens J, Raj P, Levine M, Kaper J. Descriptive epidemiology of persistent diarrhea among children in rural North India. Bulletin of the World Health Organization 67: 281-8, 1989.

52. Stanton B, Clemens J. Chronic diarrhoea: A methodological basis for its apparent heterogeneity. Tropical and Geographical Medicine 41: 100-107, 1989.

53. Clemens J, Sack D, Harris J, Khan MR, Chakraborty J, Chowdhury S, Rao MR, van Loon FPL, Stanton B, Yunus M, Ali M, Ansaruzzaman M, Svennerholm A-M, Holmgren J. Breast-feeding and the risk of severe cholera in rural Bangladeshi children. American Journal of Epidemiology 131: 400-11, 1990.

54. Clemens J, Sack DA, Harris J, van Loon F, Chakraborty J, Ahmed F, Rao MR, Khan MR, Yunus M, Huda N, Stanton B, Kay B, Walter S, Eeckels R, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh: Results from long-term follow-up. Lancet 335: 270-3, 1990.

55. Stanton B, Clemens J, Ahmed S. Methodological considerations in defining chronic diarrhoea utilizing a distributional approach. International Journal of Epidemiology 19:439-43, 1990.

56. Clemens J, Svennerholm A-M, Harris J, Huda S, Rao M, Neogy P, Ansaruzzaman M, Khan M, Rahaman S, Ahmed F, Sack D, van Loon F, Holmgren J. Seroepidemiological evaluation of anti-toxic and anti-colonization factor immunity against infections by LT-producing *Escherichia coli* in rural Bangladesh. Journal of Infectious Diseases 162: 448-53, 1990.

57. Clemens J, Sack D, Chakraborty J, Rao M, Ahmed F, Harris J, van Loon F, Khan M, Yunus M, Huda S, Kay B, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh: Evaluation of anti-bacterial and anti-toxic breast-milk immunity in response to ingestion of the vaccines. Vaccine 8: 469-72, 1990.

58. Ward RL, Nakagomi O, Knowlton DR, McNeal MM, Nakagomi T, Clemens JD, Sack DA, Schiff GM. Evidence for natural reassortants of human rotavirus belonging to different genogroups. Journal of Virology 64: 3219-25, 1990.

59. van Loon FPL, Clemens JD, Shahrier M, Sack D, Stephensen CB, Khan MR, Rabbani GH, Banik AK. Low gastric acid as a risk factor

for cholera: application of a new non-invasive gastric acid field test. Journal of Clinical Epidemiology 43: 1361-7, 1990.

60. Ferreccio C, Ortiz E, Astroza L, Rivera C, Contreras R, Clemens J, Levine M. A population-based retrospective assessment of the disease burden resulting invasive Haemophilus influenzae infections infants and young children in Santiago, Chile. The Pediatric Infectious Disease Journal 9: 488-94, 1990.

61. Horwitz R, Viscoli C, Clemens J, Sadock R. Developing improved observational methods for evaluating therapeutic effectiveness. American Journal of Medicine 89: 630-8, 1990.

62. Koenig M, Alam A, Wojtyniak B, Clemens J, Phillips J, Faveau V. Impact of measles vaccination upon childhood mortality: results of five years of surveillance. Bulletin of the World Health Organization 68: 441-7, 1990.

63. Kotloff K, Tacket C, Clemens J, Wasserman S, Quinn T. Assessment of the prevalence and risk factors for human immunodeficiency virus type 1 (HIV-1) infection among college students using three survey methods. American Journal of Epidemiology 133: 2-8, 1991.

64. Ward R, McNeal M, Clemens J, Sack D, Rao M, Huda N, Green K, Kapikian A, Coulson B, Bishop R, Greenberg H, Gerna G, Schiff G. Reactivities of serotyping monoclonal antibodies with culture-adapted human rotaviruses. Journal of Clinical Microbiology 29: 449-56, 1991.

65. Clemens JD, van Loon FPL, Sack DA, Chakraborty J, Rao MR, Ahmed F, Harris J, Khan MR, Yunus M, Huda S, Kay B, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh: Serum vibriocidal and antitoxic antibodies as markers of the risk of cholera. Journal of Infectious Diseases 163:1235-42, 1991.

66. van Loon FPL, Clemens JD, Sack DA, Chakraborty J, Rao MR, Ahmed F, Harris J, Khan MR, Yunus M, Huda S, Kay B, Svennerholm A-M, Holmgren J. ABO blood groups and the risk of diarrhea due to enterotoxigenic Escherichia coli. Journal of Infectious Diseases 163: 1243-46, 1991.

67. Clemens JD, van Loon FPL, Sack DA, Rao MR, Ahmed F, Chakraborty J, Kay BA, Khan MR, Yunus M, Harris JR, Svennerholm A-M, Holmgren J. Biotype as a determinant of the natural immunizing effect of V. cholerae 01. Lancet 337: 883-4, 1991.

68. Sack DA, Clemens JD, Huda S, Harris JR, Khan MR, Charkraborty J, Yunus M, Gomes J, Siddique M, Ahmed F, Kay B, van Loon F, Rao M, Svennerholm A, Holmgren J. Antibody responses following immunization with killed oral cholera vaccines during the 1985 vaccine field trial in Bangladesh. Journal of Infectious Diseases 164: 407-11, 1991.

69. Bingnan F, Unicomb L, Rahim Z, Banu N, Podder G, Clemens J, van Loon F, Rao M, Malek A, Tzipori S. Rotavirus-associated diarrhoea in rural Bangladesh: a two-year study of incidence and serotype distribution. Journal of Clinical Microbiology 29: 1359-63, 1991.
70. Sazawal S, Bhan M, Bhandari N, Clemens J, Bhatnagar S. Evidence for recent diarrhoeal morbidity as a risk factor for persistent diarrhoea: a case-control study. International Journal of Epidemiology 20: 540-45, 1991.
71. Ferreccio C, Clemens J, Avendano A, Horwitz I, Flores C, Avila L, Cayzazzo M, Fritzell B, Cadoz M, Levine M. The clinical and immunologic response of Chilean infants to Haemophilus influenzae type b polysaccharide-tetanus protein conjugate vaccine co-administered in the same syringe with DTP at two, four and six months of age. Pediatric Infectious Disease Journal 10: 764-71, 1991.
72. Ward R, Nakagomi O, Knowlton D, McNeal M, Nakagomi T, Huda N, Clemens J, Sack D. Formation and selection of intergenogroup reassortants during cell culture adaptation of rotaviruses from dually infected subjects. Journal of Virology 65: 2699-701, 1991.
73. Shapiro E, Berg A, Austrian R, Schroeder D, Parcels V, Margolis A, Adair R, Clemens J. The protective efficacy of polyvalent pneumococcal polysaccharide vaccine. The New England Journal of Medicine 325:1453-60, 1991.
74. Kotloff KL, Tacket CO, Wasserman SS, Bridwell MW, Cowan JE, Clemens JD, Brothers TA, O'Donnell SA, Quinn TC. A voluntary serosurvey and behavioral risk assessment for human immunodeficiency virus infection among college students. Sexually Transmitted Diseases 18:223-7, 1991.
75. Ward R, Clemens J, Sack D, Knowlton D, McNeal M, Huda N, Ahmed F, Rao M, Schiff G. Culture adaptation and characterization of group A rotaviruses causing diarrheal illnesses in Bangladesh during 1985-1986. Journal of Clinical Microbiology 29:1915-23, 1991.
76. Clemens JD, Sack DA, van Loon FPL, Rao MR, Ahmed F, Chakraborty J, Khan MR, Yunus J, Harris JR, Svennerholm AM, Holmgren J. Non-participation as a determinant of adverse health outcomes in a field trial of oral cholera vaccines. American Journal of Epidemiology 135: 865-74, 1992.
77. Clemens JD, Ward RL, Rao MR, Sack DA, Knowlton DR, van Loon FPL, Huda S, McNeal M, Ahmed F, Schiff G. Seroepidemiological evaluation of anti-rotavirus antibodies as correlates of the risk of clinically significant rotavirus diarrhea in rural Bangladesh. Journal of Infectious Diseases 165:161-5, 1992.

78. Stanton B, Clemens J, Black R. International public health policy formulations: an implementational framework for policy-makers. International Journal of Health Planning and Management 7: 23-36, 1992.
79. Clemens JD, Ferreccio C, Levine M, Horwitz I, Rao M, Edwards K, Fritzell B. Impact of Haemophilus influenzae type b polysaccharide-tetanus protein conjugate vaccine on responses to concurrently administered diphtheria-tetanus-pertussis vaccine. Journal of the American Medical Association 267: 673-9, 1992.
80. Tacket CO, Clemens JD, Kaper JB. Cholera vaccines. Biotechnology 20: 53-68, 1992.
81. Esdaile J, Horwitz R, Levinton C, Clemens J, Amatruda J, Feinstein A. Response to initial therapy and new onset as predictors of prognosis in patients hospitalized with congestive heart failure. Clinical and Investigative Medicine 15: 122-31, 1992.
82. Levine R, Raymond E, Dersimonian R, Clemens J. Preeclampsia prevention with calcium supplementation. Clinics in Applied Nutrition 2: 30-9, 1992.
83. Ahmed F, Clemens J, Rao MR, Sack DA, Khan MR, Haque E. Community-based evaluation of the effect of breast feeding upon the risk of microbiologically confirmed or clinically presumptive shigellosis in Bangladeshi children. Pediatrics 90: 406-11, 1992.
84. Clemens J, Sack D, Rao M, Chakraborty J, Khan M, Kay B, Ahmed F, Banik A, van Loon F, Yunus M, Harris J. Evidence that inactivated oral cholera vaccines both prevent and mitigate Vibrio cholerae 01 infections in a cholera-endemic area. Journal of Infectious Diseases 166: 1029-34, 1992.
85. Ward R, Clemens J, Knowlton D, Rao M, van Loon F, Huda N, Ahmed F, Schiff G, Sack D. Evidence that protection against rotavirus diarrhea following natural infection is not dependent on serotype-specific neutralizing antibody. Journal of Infectious Diseases 166: 1251-7, 1992.
86. Suharyono, Simanjuntak C, Witham N, Punjabi N, Heppner D, Losonsky G, Totosudirjo H, Rifai A, Clemens J, Lim Y, Burr D, Wasserman S, Kaper J, Sorenson K, Cryz S, Levine M. Safety and immunogenicity of single-dose live oral cholera vaccine CVD 103-HgR in 5-9 year-old Indonesian children. Lancet 340: 689-94, 1992.
87. Ciznar I, Ahsan CR, Rahman A, Shahabuddin M, Clemens J, Sack D. Crossed immunoelectrophoretic analysis of antigenic composition of B-subunit/whole-cell and whole-cell only killed oral cholera vaccines. Vaccine 10: 591-6, 1992.
88. Holmgren J, Svennerholm AM, Jertborn M, Clemens J. An oral B

subunit: whole cell vaccine against cholera. Vaccine 10: 911-4, 1992.

89. DerSimonian R, Clemens J, Spirtas R, Perlman J. Vasectomy and prostate cancer risk: methodological review of the evidence. Journal of Clinical Epidemiology 46: 163-72, 1993.

90. Ahmed F, Clemens, JD, Rao MR, Khan MR, Haque E. Initiation of food supplementation and cessation of breast feeding as determinants of weanling shigellosis. Bulletin of the World Health Organization 71: 571-8, 1993.

91. Clemens J, Sack D, Rao M, Chakraborty J, Kay B, Ahmed F, Khan MR, van Loon FPL, Svennerholm A-M, Holmgren J. The design and analysis of cholera vaccine trials: recent lessons from Bangladesh. International Journal of Epidemiology 22: 724-30, 1993.

92. Sanchez JL, Trofa AF, Taylor DN, Kuschner RA, DeFraités RF, Craig SC, Rao MR, Clemens JD, Svennerholm A-M, Sadoff JC, Holmgren J. Safety and immunogenicity of the oral, whole cell/recombinant B subunit cholera vaccine in North American volunteers. Journal of Infectious Diseases 167: 1446-9, 1993.

93. Jacobson JM, Colman N, Ostrow NA, Simson RW, Tomesch D, Marlin L, Rao M, Mills J, Clemens J, Prince AM. Passive immunotherapy in the treatment of advanced HIV infection. Journal of Infectious Diseases 168: 298-305, 1993.

94. Clemens J, Rao M, Ahmed F, Ward R, Huda S, Chakraborty J, Yunus M, Khan MR, Ali M, Kay B, van Loon F, Sack D. Breast feeding and the risk of life-threatening rotavirus diarrhea: prevention or postponement? Pediatrics 92: 680-5, 1993.

95. Powers W, Clemens J. Prognostic implications of age at detection of airleak in very low birth weight infants requiring ventilatory support. Journal of Pediatrics 123: 611-7, 1993.

96. King JC Jr, Burke AR, Clemens JD, Nair P, et al. Respiratory syncytial virus illnesses in human immunodeficiency virus and noninfected children. Pediatric Infectious Diseases Journal 12: 733-9, 1993.

97. Kotloff KL, Johnson JP, Nair P, Hickman D, Lippincott P, Wilson PD, Clemens JD. Diarrheal morbidity during the first 2 years of life among HIV-infected infants. Journal of the American Medical Association 271: 448-52, 1994.

98. Ahmed F, Clemens JD, Rao MR, Banik AK. Family latrines and pediatric shigellosis in rural Bangladesh: benefit or risk? International Journal of Epidemiology 23: 856-62, 1994.

99. Read JS, Clemens JD, Klebanoff MA. Moderate low birth weight and infectious disease mortality during infancy and childhood.

American Journal of Epidemiology 140: 721-33, 1994.

100. Bhandari N, Sazawal S, Clemens J, Kashyap D. Association between diarrheal duration and nutritional decline: implications for an empirically validated definition of persistent diarrhea. Indian Journal of Pediatrics 61: 559-66, 1994.

101. Raymond EG, Tafari N, Troendle JF, Clemens JD. Development of a practical screening tool to identify preterm, low birth weight newborns in Africa. Lancet 344: 524-7, 1994.

102. Green-Abate C, Tafari N, Rao MR, Yu KF, Clemens JD. Comparison of heated water-filled mattress and space-heated room with infant incubator in providing warmth to low birth weight newborns: A randomized clinical trial of appropriate technology for less developed countries. International Journal of Epidemiology 23: 1226-33, 1994.

103. Shu XO, Jin F, Linet MS, Zheng W, Clemens J. Diagnostic X-ray and ultrasound exposure and the risk of childhood cancer. British Journal of Cancer 70: 531-6, 1994.

104. Ivanoff B, Clemens J. Epidemiological, clinical, and microbiological characteristics of the new strain Vibrio cholerae 0139. Tropical Medicine (Marseilles) 54: 75-7, 1994.

105. Shu XO, Hatch MC, Mills JL, Clemens JD, Susser M. Maternal smoking, alcohol drinking, caffeine consumption and fetal growth: Results from a prospective study. Epidemiology 6: 115-20, 1995.

106. Clemens J, Rao J, Sack D, Ahmed F, Khan M R, Chakraborty J, Kay B, Huda S, Yunus M, van Loon F, Svennerholm A-M, Holmgren J. Impaired immune response to natural infection as a correlate of vaccine failure in a field trial of killed oral cholera vaccines. American Journal of Epidemiology 142: 759-64, 1995.

107. Clemens J, Albert MJ, Rao M, Qadri F, Huda S, Kay B, van Loon F, Sack D, Pradhan B, Sack RB. Impact of infection by Helicobacter pylori upon the risk and severity of endemic cholera. Journal of Infectious Diseases 171: 1653-6; 1995.

108. Shu XO, Clemens JD, Zheng W, Ying DM, Ji BT, Jin F. Infant breast feeding and the risk of childhood lymphoma and leukemia. International Journal of Epidemiology 24: 27-32, 1995.

109. Read J, Clemens J. Low birthweight and infectious disease mortality: A methodological reappraisal. Pediatric and Perinatal Epidemiology 9: 351-62, 1995.

110. Clemens J, Brenner R, Rao M. Vaccine interactions between PRP-T vaccine against Haemophilus influenzae type b and conventional infant vaccines: Lessons for future studies of combination vaccines. Annals of the New York Academy of Sciences 754: 255-266, 1995.

111. Clemens J, Rao M, Naficy A. Selection of outcomes for assessing vaccine protection in cholera vaccine trials: the need for suitable breadth and depth. Bulletin de l'Institut Pasteur 93: 237-41, 1995.
112. van Loon FPL., Clemens J, Chakraborty J, Rao M, Kay B, Sack D, Yunus M, Khan M, Ali M, Svennerholm A-M, Holmgren J. Field trial of inactivated oral cholera vaccines in Bangladesh: Results from five years of follow-up. Vaccine 14: 162-6, 1996.
113. Clemens J, Brenner R, Rao M, Lowe C. Evaluating new vaccines for developing countries: Efficacy or effectiveness? Journal of the American Medical Association 275: 390-7, 1996.
114. Darwish M, Farris R, Clemens J, Rao M, Edelman R. Prevalence and correlates of hepatitis C infection in a Nile delta village. American Journal of Tropical Medicine and Hygiene 54: 554-8, 1996.
115. Levine R, Esterlitz J, Raymond E, Dersimonian R, Hauth J, Curet B, Sibai B, Catalano P, Morris C, Clemens J, Ewell M, Friedman S, Goldenberg R, Jacobson S, Joffe G, Klebanoff M, Petrulis A, Rigau-Perez J. The trial of calcium for preeclampsia prevention (CPEP): rationale, design, and methods. Controlled Clinical Trials 17: 442-69, 1996.
116. Clemens J, Albert MJ, Rao M, Huda S, Qadri F, Van Loon F, Pradhan B, Naficy A, Banik A. Sociodemographic, hygienic, and nutritional correlates of Helicobacter pylori infection of young Bangladeshi children. Pediatric Infectious Diseases Journal 15: 1113-8, 1996.
117. Klebanoff M, Clemens J, Read J. Maternal smoking during pregnancy and the risk of childhood cancer. American Journal of Epidemiology 144:1028-33, 1996.
118. Ahmed F, Clemens J, Rao M, Ansaruzzaman M, Haque E. Epidemiology of shigellosis among children exposed to cases of Shigella dysentery: a multivariate assessment. American Journal of Tropical Medicine and Hygiene 56: 258-64, 1997.
119. Trach DD, Clemens JD, Ke NT, Thuy HT, Son ND, Canh DG, Hang PVD, Rao MR. Field trial of a locally produced, killed oral cholera vaccine in Vietnam. Lancet 349: 231-5, 1997.
120. Levine R, Hauth J, Curet B, Sibai B, Catalano P, Morris C, DerSimonian R, Esterlitz J, Raymond E, Bild D, Clemens J, Cutler J. Trial of calcium to prevent preeclampsia. New England Journal of Medicine 337: 69-76, 1997.
121. Clemens J, Rao M, Chakraborty J, Yunus M, Ali M, Kay B, Van Loon F, Naficy A, Sack D. Breast-feeding and the risk of life-threatening enterotoxigenic Escherichia coli diarrhea in

- Bangladeshi infants and children. Pediatrics 100:e2, 1997.
122. Naficy A, Clemens J, Rao M. Field evaluations of vaccine protection. Bulletin de l'Institut Pasteur 95: 187-96, 1997.
123. Robertson S, Vall Mayans M, Horsfall S, Wright P, Clemens J, Ivanoff B, Lambert P-H. The WHO Global Programme for Vaccines and Immunization vaccine trial registry. Bulletin of the World Health Organization 75: 295-305, 1997.
124. Savarino S, Brown F, El Abu Yazeed R, Hall E, Peruski L, Naficy A, Rao M, Wierzba T, Clemens J. Evaluation of a new, killed oral vaccine against enterotoxigenic Escherichia coli in Egyptian adults. Journal of Infectious Diseases 177: 796-9, 1998.
125. Lin F-Y, Clemens J, Azimi P, Regan J, Weisman L, Philips J, Rhoads G, Clark P, Brenner R, Ferrieri P. Capsular polysaccharide types of Group B streptococcal isolates from neonates with early-onset systemic infection. Journal of Infectious Diseases 177: 790-2, 1998.
126. Naficy A, Rao M, Paquet C, Antona D, Sorkin A, Clemens J. Treatment and vaccination strategies for the control of cholera epidemics in established Sub-Saharan refugee settings: a cost-effectiveness analysis. Journal of the American Medical Association 279: 521-6, 1998.
127. Brenner R, Simons-Morton B, Bhaskar B, Mehta N, Melnick V, Revenis M, Berendes H, Clemens J. Prevalence and predictors of the prone sleep position among inner-city infants. Journal of the American Medical Association 280: 341-6, 1998.
128. Klebanoff M, Levine R, Clemens J, DerSimonian R, Wilkins D. Serum cotinine concentration and self-reported smoking during pregnancy. American Journal of Epidemiology 148: 259-62, 1998.
129. Klebanoff M, Levine R, DerSimonian R, Clemens J, Wilkins D. Serum caffeine and paraxanthine as markers for reported caffeine intake in pregnancy. Annals of Epidemiology 8: 107-11, 1998.
130. Durham K, Longini I, Nizam A, Clemens J, Rao M, Halloran E. Estimation of vaccine efficacy in the presence of waning. American Journal of Epidemiology 147: 948-59, 1998.
131. Read J, Frasch C, Rich K, Fitzgerald G, Clemens J, Pitt J, Pelton S, Hanson I, Davenny K, Handelsman E, Diaz C, Fowler M. The immunogenicity of Haemophilus influenzae type B conjugate vaccines in children born to HIV-infected women. Pediatric Infectious Disease Journal 17: 391-7, 1998.
132. Joffe G, Esterlitz J, Levine R, Clemens J, Ewell M, Sibai B, Catalano P. The relationship between abnormal glucose tolerance

- and hypertensive disorders of pregnancy in health nulliparous women. American Journal of Obstetrics and Gynecology 179: 1032-7, 1998.
133. El-Sharkawy M, Faris R, Grumbach K, Edelman R, Clemens J, Rao M, Darwish M. Abdominal ultrasonographic findings detected in the course of a hepatitis survey in an Egyptian rural area. Journal of the Egyptian Public Health Association. 73: 369-85, 1998.
134. Savarino S, Hall E, Bassily S, Brown M, Youssef F, Wierzba T, Peruski L, El-Masry N, Safwat M, Rao M, Mohamady H, Abu-Elyazeed R, Naficy A, Svennerholm AM, Jertborn M, Lee Y, Clemens J. Oral, inactivated whole cell enterotoxigenic Escherichia coli plus cholera toxin B subunit vaccine: results of the initial evaluation in children. Journal of Infectious Diseases 179: 107-14, 1999.
135. Bassily S, Frenck R, Mohareb E, Wierzba T, Savarino S, Hall E, Kotkat A, Naficy A, Hyams K, Clemens J. Seroprevalence of Helicobacter pylori among Egyptian newborns and their mothers: a preliminary report. American Journal of Tropical Medicine and Hygiene 61: 37-40, 1999.
136. Kotloff K, Winikoff J, Ivanoff B, Clemens J, Swerdlow D, Sansonetti P, Adak R, Levine M. Global burden of Shigella infections: implications for vaccine development and implementation of control strategies. Bulletin of the World Health Organization 77: 651-6, 1999.
137. Abu-Elyazeed R, Wierzba T, Mourad A, Peruski L, Kay B, Rao M, Churilla A, Bourgeois AL, Mortagy A, Kamal S, Savarino S, Campbell J, Murphy J, Naficy A, Clemens J. Epidemiology of enterotoxigenic Escherichia coli (ETEC) diarrhea in a pediatric cohort in a periurban area of Lower Egypt. Journal of Infectious Diseases 179: 382-9, 1999.
138. Clemens J, Abu Elyazeed R, Rao M, Savarino S, Morsy B, Kim Y, Wierzba T, Naficy A, Lee YJ. Early initiation of breast-feeding and the risk of infant diarrhea in rural Egypt. Pediatrics 104(1):e3, 1999.
139. Holmes J, Kirkwood C, Gerna G, Clemens J, Glass R, Gentsch J. Detection and characterization of unusual G8 rotavirus strains isolated from Egyptian children. Archives of Virology 144: 1381-96, 1999.
140. Naficy A, Abu-Elyazeed R, Holmes J, Rao M, Savarino S, Kim Y, Wierzba T, Peruski L, Lee Y, Gentsch J, Glass R, Clemens J. Epidemiology of rotavirus diarrhea in Egyptian children and implications for disease control. American Journal of Epidemiology 150: 770-7, 1999.
141. Clemens J, Keckich N, Naficy A, Rao M. Public health

considerations for the introduction of new vaccines against rotavirus: a case study of the rhesus rotavirus- reassortant vaccine. Epidemiology Reviews 21:24-42, 1999.

142. Mills J, DerSimonian R, Raymond E, Morrow J, Roberts J, Clemens J, Hauth J, Catalano P, Sibai B, Curet L, Levine R. Prostacyclin and thromboxane changes antedating clinical onset of preeclampsia: a multicenter, prospective study. Journal of the American Medical Association 282: 356-62, 1999.

143. Sinha A, Sazawal S, Kumar R, Sood S, Reddaiah V, Singh B, Rao M, Naficy A, Clemens J, Bhan M. Typhoid fever in children aged less than 5 years. Lancet 354: 734-7, 1999.

144. Peruski L, Kay B, El-Alyzeed R, El-Etr S, Cravioto A, Wierzba T, Rao M, El-Ghorab N, Shaheen H, Khalil S, Kamal K, Wasfy M, Svennerholm A-M, Clemens J, Savarino S. Phenotypic diversity of enterotoxigenic Escherichia coli strains from a community-based study of pediatric diarrhea in periurban Egypt. Journal of Clinical Microbiology 37: 2974-8, 1999.

145. Klebanoff M, Levine R, DerSimonian R, Clemens J, Wilkins D. Maternal serum paraxanthine, a caffeine metabolite, and the risk of spontaneous abortion. New England Journal of Medicine 341: 1639-44, 1999.

146. King J, Borkowsky W, Mahidhara N, Madore D, Shapiro E, Rutstein R, Tan T, Farley J, Dankner W, Nachman S, Simoes E, Flynn P, Clemens J, Hamilton R. Group-specific antibody levels surrounding invasive pneumococcal infections in children infected by human immunodeficiency virus. Journal of Infectious Diseases 181: 1817-21, 2000.

147. Lin F-Y, Azimi P, Weisman L, Philips J, Regan J, Clark P, Rhoads G, Clemens J, Troendle J, Pratt E, Brenner R, Gill V. Antibiotic susceptibility profiles of Group B streptococci isolated from neonates from 1995 to 1998. Clinical Infectious Diseases 31: 76-9, 2000.

148. Naficy A, Rao R, Holmes J, Abu-Elyazeed R, Savarino S, Wierzba T, Frenck R, Monroe S, Glass R, Clemens J. Astrovirus diarrhea in Egyptian children. Journal of Infectious Diseases 182: 685-90, 2000.

149. Naficy A, Frenck R, Rao R, Abu-Elyazeed R, Savarino S, Wierzba T, Clemens J. A community-based, epidemiologic assessment of Helicobacter pylori infections of infants and children in rural Egypt. International Journal of Epidemiology 29: 928-32, 2000.

150. Gilbert P, Self S, Rao M, Naficy A, Clemens J. Sieve analysis: methods for assessing how vaccine efficacy depends on genotypic and phenotypic pathogen variation from vaccine trial data. Journal of Clinical Epidemiology 54: 68-85,

2001.

151. Darwish M, Faris R, El-Sharkawy M, Edelman R, Rao M, Darwish N, Gadallah M, Shouman A, Grumbach K, Clemens J. Hepatitis C and cirrhotic liver disease in the Nile Delta of Egypt: A community-based study. American Journal of Tropical Medicine and Hygiene 64: 147-153, 2001.

152. Brenner R., Simons-Morton B, Bhaskar B, Clemens J. Prevalence and predictors of immunization among inner-city infants: a cohort study. Pediatrics 108: 661-70, 2001.

153. Ahmed F, Clemens J, Rao M, Ansaruzzaman M, Haque E. Epidemiology of postshigellosis persistent diarrhea in young children. Pediatric Infectious Disease Journal 20: 525-530, 2001.

154. Naficy A, Trach DD, Ke NT, Chuc NT, Sorkin A, Rao M, Sy T, Thiem VD, Canh DG, Mahoney R, Holmgren J, Ivanoff B, Clemens J. Cost of immunization with a locally produced, oral cholera vaccine in Vietnam. Vaccine 19: 3720-3725, 2001.

155. Rao M, Abu-Elyazeed R, Wierzba T, Savarino S, Frenck R, Peruski L, Clemens J. Pathogenicity and convalescent excretion of Campylobacter in rural Egyptian children. American Journal of Epidemiology 154: 166-173, 2001.

156. Lin FY, Brenner R, Johnson Y, Azimi P, Philips J, Regan J, Clark P, Weisman L, Rhoads G, Kong F, Clemens J. The effectiveness of risk-based intrapartum chemoprophylaxis for the prevention of early-onset Group B streptococcal disease. American Journal of Obstetrics and Gynecology 184: 1204-1210, 2001.

157. Yang HH, Kilgore P, Yang LH, Park J-K, Pan Y-F, Kim Y, Lee YJ, Xu Z-Y, Clemens J. An outbreak of typhoid fever, Xing An county, People's Republic of China: estimation of the field effectiveness of Vi polysaccharide typhoid vaccine. Journal of Infectious Diseases 183: 1775-80, 2001.

158. Wierzba TF, El-Yazeed RA, Savarino SJ, Mourad AS, Rao M, Baddour M, El-Deen AN, Naficy AB, Clemens JD. The interrelationship of malnutrition and diarrhea in a periurban area outside Alexandria, Egypt. Journal of Pediatric Gastroenterology and Nutrition 32(3):189-194, 2001.

159. Hall E, Wierzba T, Rao M, Ahren C, Bassily S, Francis W, Youssef F, Safwat S, Lee YJ, Svennerholm AM, Clemens J, Savarino S. Induction of systemic antibody responses in Egyptian children and adults by an oral, killed enterotoxigenic Escherichia coli vaccine. Infection and Immunity 69: 2853-2857, 2001.

160. Lin F-L, Philips JB, Azimi PH, Weisman LE, Clark P, Rhoads

- GG, Regan J, Concepcion NF, Frascch CE, Troendle J, Brenner RA, Gray BM, Bhushan R, Fitzgerald G, Moyer P, and Clemens JD. Level of maternal antibody required to protect neonates against early-onset disease caused by Type 1a Group B streptococcus: A multi-center, seroepidemiology study. Journal of Infectious Diseases 184: 1022-8, 2001.
161. Robertson S, Mayans M, El-Husseiny A, Clemens J, Ivanoff B. The WHO vaccine trial registry. Vaccine 20: 31-41, 2001.
162. Klebanoff M, Levine R, Clemens J, Wilkins D. Maternal serum caffeine metabolites and small-for-gestational age birth. American Journal of Epidemiology 155: 32-37, 2002.
163. Trach DD, Cam PD, Ke NT, Rao MR, Dinh D, Hang PV, Hung NV, Canh DG, Thiem VD, Naficy A, Svennerholm A-M, Holmgren J, Clemens JD. Investigations of the safety and immunogenicity of a new, killed oral cholera vaccine developed in Vietnam. Bulletin of the World Health Organization 80: 2-8, 2002.
164. Savarino SJ, Hall ER, Bassily S, Wierzba TF, Youssef F, Peruski LF, Abu-Elyazeed R, Rao M, Francis W, Mohamady H, Safwat M, Naficy AB, Svennerholm A-M, Jertborn M, Lee YJ, Clemens JD. Introductory evaluation of an oral, killed enterotoxigenic Escherichia coli plus cholera toxin B subunit vaccine in Egyptian infants. Pediatric Infectious Disease Journal 21: 1-9, 2002.
165. Gilbert P, Wei L.J., Kosorok M, Clemens J. Simultaneous inferences on the contrast of two hazard functions with censored observations. Biometrics 58: 773-780, 2002.
166. Rao M, Blackwelder W, Clemens J. Sample size considerations for Phase 2 trials of new vaccines. Vaccine 20: 3364-3369, 2002.
167. Tuyet DT, Thiem VD, von Seidlein L, Chowdhury A, Park E, Canh DG, Chien BT, Tung TV, Naficy A, Rao MR, Kay BA, Ali M, Lee H, Hossain M, Sy TH, Nichibuchi M, Clemens JD, Trach DD. Clinical, epidemiologic, and socio-economic analysis of a Vibrio parahaemolyticus outbreak in Khanh Hoa province, Vietnam. Journal of Infectious Diseases 186: 1615-1620, 2002.
168. Bhan MK, Bahl R, Sazawal S, Sinha A, Kumar R, Mahanabis D, Clemens J. Helicobacter pylori infection is associated with increased risk of typhoid fever. Journal of Infectious Diseases 186: 1857-1860, 2002.
169. Rao M, Naficy A, Schisterman E, Clemens J, Edelman R, Darwish M, Darwish N. Further evidence for association of hepatitis C infection with parenteral schistosomiasis treatment in Egypt. BMC Infectious Diseases 2: 29-33, 2002.
170. Almond J, Clemens J, Engers H, Halstead S, Khiem H, Pablos-Mendez A, Pervikov Y, Tram T. Accelerating the development and introduction of a dengue vaccine for poor children. Vaccine 20:

3043-6, 2002.

171. Brenner R, Simons-Morton BG, Bhaskar B, Revenis M, Das A, Clemens J. Infant-parent bed sharing in an inner-city population. Archives of Pediatric and Adolescent Medicine 157: 33-39, 2003.

172. Albert MJ, Quadri F, Wahed M, Ahmed T, Rahman A, Ahmed F, Bhuiyan N, Zaman K, Baqui A, Clemens J, Black R. Supplementation with zinc rather than with vitamin A has a greater impact on vibriocidal antibody response to oral cholera vaccine in children. Journal of Infectious Diseases 187: 909-13, 2003.

173. Ali M, Canh DG, Clemens J, Park J-K, von Seidlein L, Thiem VD, Tho LH, Trach DD. The vaccine data link in Nha Trang, Vietnam: a progress report on the implementation of a database to detect adverse events related to vaccinations. Vaccine 21L: 1681-6, 2003.

174. Ding D, Kilgore P, Clemens J, Liu W, Xu Z. Cost-effectiveness of routine immunization to control Japanese encephalitis in Shanghai, China. Bulletin of the World Health Organization 81: 334-42, 2003.

175. Frenck R, Clemens J. Helicobacter in the developing world. Microbes and Infections 5: 705-13, 2003.

176. Clemens JD. Thinking downstream to accelerate the introduction of new vaccines for developing countries. Vaccine 21(Suppl): S114-5, 2003.

177. Rao M, Levine R, Wasif N, Clemens J. Reliability of maternal recall and reporting of child deaths in rural Egypt. Paediatric and Perinatal Epidemiology 17: 125-31, 2003.

178. Khiem H, Huan L, Nguyen TMP, Dang D, Hoang D, Phuong L, Sac P, Chien T, Tai L, Dan N, Deen J, von Seidlein L, Clemens J, Trach DD. Mass psychogenic illness following oral cholera immunization in Ca Mau City, Vietnam. Vaccine 21: 4527-31, 2003.

179. DeRoeck D, Deen J, Clemens J. Policymakers' views on dengue fever/dengue hemorrhagic fever and the need for dengue vaccines in four Southeast Asian countries. Vaccine 22: 121-9, 2003.

180. England L, Brenner R, Das A, Bhaskar B, Simons-Morton B, Mehta N, Revenis M, Clemens J. Breastfeeding practices in a cohort of inner city women: the role of contraindications Biomed Central Public Health. 3:28, 2003.

181. Putnam S, Frenck R, Riddle M, El-Gendy A, Taha N, Pittner B, Abu-Elyazeed R, Wierzba T, Rao M, Savarino S, Clemens J. Antimicrobial susceptibility trends in Campylobacter jejuni and Campylobacter coli isolated from a rural Egyptian pediatric population with diarrhea. Diagnostic Microbiology and Infectious Disease 47: 101-8, 2003.

182. Rao MR, Abu-Elyazeed R, Savarino SJ, Naficy A, Wierzba TF, Abdel-Messih I, Shaheen H, Frenck RW, Svennerholm A-M, Clemens JD. High disease burden due to enterotoxigenic Escherichia coli diarrhea in early life among rural Egyptian children. Journal of Clinical Microbiology 41:4862-4, 2003.
183. Thiem VD, Hossain MM, Son ND, Hoa NT, Rao MR, Canh DG, Naficy A, Ke NT, Acosta CJ, Deen JL, Clemens JD, Trach DD. Coverage and costs of a mass immunization of an oral cholera vaccine in Vietnam. Journal of Health, Population and Nutrition. 21: 304-8, 2003.
184. Qadri F, Ahmed T, Wahed M, Ahmed F, Bhuiyan N, Rahman A, Clemens JD, Black RE, Albert MJ. Suppressive effect of zinc on antibody response to cholera toxin in children given the killed, B subunit-whole cell, oral cholera vaccine. Vaccine 22: 416-21, 2004.
185. Chowdhury, A, Ishibashi M, Thiem V, Tuyet D, Tung T, Chien B, von Seidlein L, Canh D, Clemens J, Trach DD, Nishibuchi M. Emergence and serovar transition of Vibrio parahaemolyticus pandemic strains isolated during a diarrhea outbreak in Vietnam between 1997 and 1999. Microbiology and Immunology 48: 319-27, 2004.
186. Vu DT, Sethabutro VS, Tran VT, Do GC, Bui TC, Le HT, Clemens JD, Mason C, Trach DD. Detection of shigellosis by a PCR assay targeting the ipaH gene suggests an increased prevalence of shigellosis in Nha Trang, Vietnam. Journal of Clinical Microbiology 42: 2031-5, 2004.
187. Clemens J, Savarino S, Abu-Elyazeed R, Safwat M, Rao M, Wierzba T, Svennerholm A-M, Holmgren J, Frenck R, Park E, Naficy A. Development of pathogenicity-driven definitions of outcomes for a field trial of a killed, oral vaccine against enterotoxigenic Escherichia coli in Egypt: Application of an evidence-based method. Journal of Infectious Diseases 189: 2299-307, 2004.
188. Lin Feng-Ying, Weisman L, Azimi P, Philips J, Clark P, Regan J, Rhoads G, Frasci C, Gray B, Troendle J, Brenner R, Moyer P, Clemens J. Level of maternal IgG anti-Group B, streptococcal type III antibody correlated with protection of neonates against early-onset disease caused by this pathogen. Journal of Infectious Diseases 190: 928-34, 2004.
189. Abu-Elyazeed R, Wierzba T, Frenck R, Rao M, Savarino S, Kamal K, Peruski L, Abd-El Messih I, El-Alkamy S, Naficy A, Clemens J. Epidemiology of Shigella associated diarrhea in rural Egyptian children. American Journal of Tropical Medicine and Hygiene 71: 367-72, 2004.
190. Samosornsuk S, Jitsanguansuk S, Sirima N, Sudjai S,

Tapchaisri P, Chompook P, von Seidlein L, Robertson S, Ali M, Clemens J, Chaicumpa W. Preferences for treatment of diarrhea and dysentery in Kaengkhoi district, Saraburi province, Thailand. Journal of Health Population and Nutrition 22: 113-8, 2004.

191. Wang X-Y, von Seidlein L, Robertson S, Ma J-c, Han C-q, Zhang Y-l, Lee H, Liu W, Ali M, Clemens J, Xu Z-Y. A community-based cluster survey on treatment preferences for diarrhea and dysentery in Zhengding county, Hebei province, China. Journal of Health, Population, and Nutrition 22: 1-4-12, 2004.

192. Kim, JS, Jang, YT, Kim, JD, Park, TH, Park, JM, Kilgore, PE, Kennedy, WA, Park, ES, Batmunkh, N, Kim, DR, Hwang, PH, Kim, SJ, Eun, SH, Lee, HS, Cho, JH, Kim, YS, S. Chang, SJ, Huang, HF, Clemens, JD and Ward, JI. Incidence of *Haemophilus influenzae* type b and Other Invasive Diseases in South Korean Children. Vaccine 28: 3952-62, 2004.

193. Acosta C, Galindo C, Ochiai RL, Donovaro C, Page A, Thiem V, Park J, Koo H, Park E, Wang X, Abu Elyazeed R, Ali M, Ivanoff B, Pang T, Xu Z, Clemens J. The role of epidemiology in the introduction of Vi polysaccharide vaccines in Asia. Journal of Health, Population, and Nutrition 22: 240-5, 2004

194. Bahl R, Sinha A, Poulos C, Whittington D, Sazawal S, Kumar R, Mahanabhis D, Acosta C, Clemens J, Bhan M. Costs of illness of typhoid fever in an Indian urban slum community: implications for vaccine policy. Journal of Health, Population, and Nutrition 22: 304-10, 2004

195. Poulos C, Bahl R, Whittington D, Bhan M, Clemens J, Acosta C. A benefit-cost analysis of typhoid fever immunization programs in an Indian urban slum community: incorporating private market provision of Vi vaccines. Journal of Health, Population, and Nutrition 22: 311-21, 2004

196. Clemens J and Jodar L. Translational research to assist policy decisions about introducing new vaccines into developing countries. Journal of Health, Population, and Nutrition 22: 223-31, 2004

197. Shaheen HI, Khalil SB, Rao MR, Abu Elyazeed R, Wierzba TF, Peruski LF, Putnam S, Navarro A, Morsy BZ, Cravioto A, Clemens JD, Svennerholm A-M, Savarino SJ. Phenotypic profiles of enterotoxigenic *Escherichia coli* associated with early childhood diarrhea in rural Egypt. Journal of Clinical Microbiology 42: 5588-95, 2004

198. Deen J, von Seidlein L, Clemens J. Multidisciplinary studies of disease burden in the Diseases of the Most Impoverished (DOMI) Program. Journal of Health, Population, and Nutrition 22: 232-9, 2004

199. Simanjuntak C, Punjabi N, Wangsasaputra F, Nurdin D, Pulunsih S, Rofiq A, Santoso H, Pujarwoto H, Sjahrurachman A, Suedarmono P, von Seidlein L, Acosta C, Robertson S, Ali M Lee H, Park JK, Deen J, Agtini M, Clemens J. Diarrhoea episodes and treatment seeking behaviour in a slum area of North Jakarta. Journal of Health, Population, and Nutrition 22: 119-29, 2004.
200. Sur D, Manna B, Deb A, Deen J, Danovaro-Holliday C, von Seidlein L, Clemens J, Battacharya S. Factors associated with reported diarrhea episodes and treatment-seeking in an urban slum of Kolkata, India. Journal of Health, Population, and Nutrition 22: 130-9, 2004.
201. Kaljee L, Vu T, von Seidlein L, Genaberg B, Do C, Tho LH, Truoun TM, Le TKY, Clemens J, Dang DT. Healthcare use for diarrhea and dysentery in actual and hypothetical cases, Nha Trang, Vietnam. Journal of Health, Population, and Nutrition 22: 139-49, 2004.
202. Folb, PI, Bernatowska E, Chen R, Clemens JD, Dodoo A, Ellenberg S, Farrington CP, John TJ, Lambert P-H, MacDonald NE, Miller E, Salisbury D, Schmitt H, Siegrist C-A, Wimalaratne O. A global perspective on vaccine safety and public health: the Global Advisory Committee on Vaccine Safety. American Journal of Public Health 94: 1926-31, 2004
203. Acosta C, Galindo C, Deen J, Ochiai L, Lee H, von Seidlein L, Carbis R, Clemens J. Vaccines against cholera, typhoid fever, and shigellosis for developing countries. Expert Opinion in Biologic Therapeutics 4: 1939-51; 2004.
204. Lee H, Kotloff K, Samosornsuk S, Chompook P, Deen J, von Seidlein L, Clemens J, Wanpen C. Shigellosis remains an important problem in children less than five years of age in Thailand. Epidemiology and Infection 133: 469-74, 2005.
205. Rao MR, Wierzba TF, Savarino SJ; Abu-Elyazeed R, El-Ghoreb N, Hall ER, Naficy A, Abdel Nessih I, Frenck RW, Svennerholm AM, Clemens JD. Serologic correlates of protection against enterotoxigenic Escherichia coli diarrhea. Journal of Infectious Diseases 191: 562-70, 2005
206. Wang WY, Xu ZY, von Seidlein L, Zhang YL, Zhao SJ, Hao ZY, Han OP, Kilgore P, Xing ZC, Han CQ, Ma JC, Chen JC, Clemens JD. Incidence of diarrhea caused by rotavirus infections in rural Zhengding, China: prospective, population-based surveillance. Journal of Infectious Diseases 192 (Suppl 1): S100-5, 2005.
207. DeRoeck D, Nyamete A, Mahoney R, Clemens J. Policymakers' views regarding the introduction of new generation vaccines against cholera, typhoid fever and shigellosis in Asia. Vaccine 23:2762-2774, 2005.

208. Chompook P, Samosornsuk S, von Seidlein L, Jitsanguansuk S, Sirima N, Sudjai S, Mangjit P, Kim DR, Wheeler J, Todd J, Lee H, Ali M, Clemens J, Tapchaisri P, Chaicumpa W. Estimating the burden of shigellosis in Kaengkhroi, Thailand: 36 months of population-based surveillance. Bulletin of the World Health Organization 83: 739-46, 2005.
209. Holmgren J, Adamson J, Anjuere F, Clemens J, Czerkinsky C, Eriksson K, Flach C, George-Chandy A, Harandi A, Lebens M, Lehner T, Lindblad M, Nygren E, Raghavan S, Sanchez J, Stanford M, Sun J-B, Svennerholm A-M, Tengvall S. Mucosal adjuvants and anti-infection and anti-immunopathology vaccines based on cholera toxin, cholera toxin B subunit, and CpG DNA. Immunology Letters 97: 181-188, 2005.
210. Lucas M, Deen JL, von Seidlein L, Wang X-Y, Ampuero J, Puri M, Ali M, Ansaruzzaman M, Amos J, Cavallier P, Guerin P, McChesney M, Mahoudeau C, Kahozi P, Chaignat C-Barreto A, Songane F, Clemens JD. The effectiveness of an internationally licensed, two dose oral cholera vaccine when given in a mass vaccination campaign in Beira, Mozambique. New England Journal of Medicine 352: 757-67, 2005.
211. Clemens J, Jodar L. Introducing new vaccines into developing countries: obstacles, opportunities, and complexities. Nature (Medicine) 11(4 Suppl): S12-15, 2005.
212. Ali M, Emch M, von Seidlein L, Yunus M, Sack D, Rao M, Holmgren J, Clemens J. Herd immunity conferred by killed oral cholera vaccines in Bangladesh. Lancet 366:44-49, 2005
213. Qadri F, Chowdhury MI, Faruque S, Salam M, Ahmed T, Begum YA, Saha A, Alam MS, von Seidlein L, Park E, Killeen KP, Mekalanos JJ, Clemens JD, Sack DA. Randomized controlled study of the safety and immunogenicity of Peru-15, a live attenuated oral vaccine candidate for Vibrio cholerae O1 in adult volunteers in Bangladesh Journal of Infectious Diseases 192: 573-9, 2005.
214. Ansaruzzaman M, Lucas M, Deen J, Bhuiyan N, Wang X-Y, Safa A, Sultana M, Chowdhury N, Nair G, Sack D, von Seidlein L, Puri M, Ali M, Chaignat C-L, Clemens JD, Barreto A. Pandemic serovars (O3:K6 and O4:K68) of Vibrio parahaemolyticus associated with diarrhoea in Mozambique: Spread of the pandemic into the African continent. Journal of Clinical Microbiology 43: 2559-62, 2005.
215. Ali M, Canh CDD, Clemens JD, Park J, von Seidlein L, Truong MT, Thiem DV, Le TH, Trach DD. A large-linked database for the detection of potential vaccine-related events in Khanh Hoa, Vietnam: results from the first two years of surveillance. Bulletin of the World Health Organization 83: 604-10, 2005.
216. Yang J, Acosta C, Si G, Zeng J, Li C, Liang D, Ochiai RL,

Page A, Danovaro-Holliday MC, Zhang J, Zhou B, Liao H, Wang M, Tan D, Donner A, Galindo CM, Dong B, Clemens JD. A mass vaccination campaign targeting adults and children to prevent typhoid fever in Hechi; Expanding the Use of Vi polysaccharide in Southeast China: A cluster randomized trial. BMC Public Health. 18:49-55, 2005.

217. Ali M, Park JK, Thiem VD, Canh DG, Emch M, Clemens J. Neighborhood size and local geographic variation of health and social determinants. International Journal of Geography. 4: 12-16, 2005.

218. Wang XY, Du L, von Seidlein L, Xu ZY, Zhang Y, Hao ZY, Han OP, Ma JC, Lee HJ, Ali M, Han CG, Xing ZC, Chen JC, Clemens JD. Occurrence of shigellosis in the young and elderly in rural China: results of a 12-month population-based surveillance study. American Journal of Tropical Medicine and Hygiene 73: 416-22, 2005.

219. Acosta CJ, Yang H, Wang N, Gao Q, Deng Q, Ma X, Zhou B, Liu W, Danovaro-Holliday C, Ochiai RL, Wang X-Y, Kim D, Xu Z-Y, Dong B, Galindo C, Clemens J. Efficacy of a locally produced, Chinese Vi polysaccharide typhoid fever vaccine during six years of follow-up. Vaccine 23: 5618-23, 2005.

220. Ochiai RL, Wang XY, Yang J, Bhutta Z, Bhattacharya SK, Agtini M, Naheed A, von Seidlein L, Deen JL, Clemens JD. A relative increase in *Salmonella paratyphi* A rates in Asia: results from surveillance studies in 5 countries. Emerging Infectious Diseases. 11: 1764-6, 2005.

221. Agtini M, Soeharno R, Lesmana M, Punjabi N, Simanjutuk C, Wangsasupatra F, Nurdin D, Pulungsih S, Rofiq A, Santoso A, Pujarwoto, Sjahrurachman A, Sudarmono P, von Seidlein L, Deen J, Ali M, Lee H, Kim M, Han D, Park J, Suwandono A, Ingerani, Oyofa B, Campbell J, Beecham J, Corwin A, Clemens J. The burden of diarrhea, shigellosis, and cholera in Jakarta, Indonesia. BMC Infectious Diseases 5: 89, 2005

222. Acosta C, Galindo C, Ali M, Ely Azeed R, Ochiai RL, Danovaro-Holliday M, Page A, Thiem V, Jin Y, Park J, Lee H, Puri M, Ivanoff B, Agtini M, Soeharno R, Simanjuntak C, Punjabi N, Canh D, Sur D, Nizami Z, Manna B, Bai-qing D, Anh D, Honghui Y, Bhattacharya S, Bhutta Z, Trach D, Xu ZY, Pang T, Donner A, Clemens J. A multi-country cluster randomized controlled effectiveness evaluation to accelerate the introduction of Vi polysaccharide typhoid vaccine in developing countries in Asia: rationale and design. Tropical Medicine and International Health 10: 1219-28, 2005.

223. Sur D, Deen J, Manna B, Niyogi S, Deb A, Kanungo S, Sarkar B, Kim D, Danovaro-Holliday M, Holliday K, Gupta V, Ali M, von Seidlein L, Clemens J, Bhattacharya S. The burden of cholera in the slums of Kolkata, India: data from a prospective, community

based study. Archives of Diseases of Childhood 90: 1175-81, 2005.

224. Khan MI, Sahito SM, Khan MJ, Wassan SM, Sheikh AW, Maheshwari AK, Acosta C, Galindo C, Ochiai RL, Awan SR, Peerwani SA, Puri MK, Ali M, Zafar A, Hasan R, von Seidlein L, Clemens J, Nizami SQ, Bhutta Z. Enhanced disease surveillance through private health care sector cooperation in Karachi, Pakistan: Experience from a vaccine trial. Bulletin of the World Health Organization 84: 72-7, 2006.

225. Lee JH, Han K, Choi S, Song M, Lucas M, Maldone C, Ansarazzaman A, Nair GB, Sack D, von Seidlein L, Clemens J, Kim D, Chun J. Multilocus sequence typing (MLST) analysis of Vibrio cholerae 01 El Tor isolates harboring the classical CTX prophage isolated in Mozambique. Journal of Clinical Microbiology 55: 165-70, 2006.

226. Anh DD, Kilgore P, Kennedy W, Nyambat B, Long H, Jodar L, Clemens J, Ward J. *Haemophilus influenzae* type B meningitis among children in Hanoi, Vietnam: epidemiologic patterns and estimates of disease burden. American Journal of Tropical Medicine and Hygiene 74: 509-15, 2006.

227. Cavallier P, Lucas M, Ducooud V, McChesney M, Anpuer S, Gueriin D, Legros D, Nierle T, Mahoudeau C, Iab B, Kaliozi O, Deen J, von Seidlein L, Wang XY, Puri M, Ali M, Clemens J, Songone F, Baptista A, Ismael F, Barreto A, Chaignat C. Feasibility of a mass vaccination campaign using a two-dose oral cholera vaccine in an urban cholera-endemic setting in Mozambique. Vaccine 24: 4890-5, 2006.

228. Wang X-Y, Tao F, Xiao D, Lee H, Deen J, Gong J, Zhao Y, Zhou W, Li W, Shen B, Song Y, Ma J, Li Z, Wang Z, von Seidlein L, Xu Z-Y, Clemens J. The trend and the disease burden: bacillary dysentery in China 1991 to 2000. Bulletin of the World Health Organization 84: 561-8, 2006.

229. Chen X, Stanton B, Nyamete A, Pach A, Kaljee L, Pack R, von Seidlein L, Wang X, Clemens J, Gong Y, Mao R. Differences in perception of dysentery and enteric fever and willingness to receive vaccines among rural residents in China. Vaccine 24: 561-71, 2006.

230. Pack R, Wang XY, Singha A, von Seidlein L, Pach A, Kaljee L, Butrapan P, Youlong G, Blum L, Bhutta Z, Santoso S, Trach DD, Waluyo L, Nyamete A, Clemens J, Stanton B. Willingness to be vaccinated against shigellosis and other forms of dysentery: a comparison of three regions of Asia. Vaccine 24: 485-94, 2006.

231. Sur D, von Seidlein L, Manna B, Dutta S, Deb A, Sarkar B, Kanungo S, Deen J, Ali M, Kim D, Gupta V, Ochiai RL, Tsuzuki A, Acosta C, Clemens J, Bhattacharya SK, The malaria and typhoid fever burden in the slums of Kolkata, India: data from a

prospective community-based study. Transactions of the Royal Society of Tropical Medicine and Hygiene. 100: 725-33, 2006.

232. Wang XY, Ansaruzzaman M, Vaz R, Mondlane C, Lucas M, von Seidlein L, Deen J, Ampuero S, Puri M, Nair G, Park T, Clemens J, Chaignat CL, Rajerison M, Nato F, Fournier J. Field evaluation of a rapid immunochromatographic dipstick test for the diagnosis of cholera in a high-risk population. BMC Infectious Diseases. 6: 17, 2006.

233. Siddiqui F, Bhutto N, von Seidlein L, Khurram I, Rasool S, Ali M, Zafar A, Deen J, Clemens J, Nizami Q, Bhutta Z. Consecutive outbreaks of *Vibrio cholerae* 0139 and *V. cholerae* 01 cholera in a fishing village near Karachi, Pakistan. Transactions of the Royal Society of Tropical Medicine and Hygiene. 100: 476-82, 2006.

234. Na-Ubol M, Samosornsuk S, von Seidlein L, Tapchaisri P, Ali M, Clemens J, Chaicumpa W. Molecular characteristics of *Shigella* spp. isolated from patients with diarrhoea in a new industrialized area of Thailand. Epidemiology and Infection 134: 997-1003, 2006.

235. Thiem VD, Deen JL, von Seidlein L, Do GC, Dang DA, Park JK, Ali M, Danovaro-Holliday MC, Nguyen DS, Nguyen TH, Holmgren J, Clemens JD. Long-term effectiveness against cholera of oral killed whole-cell vaccine produced in Vietnam. Vaccine. 24: 4297-303, 2006.

236. Ali M, Park JK, von Seidlein L, Acosta C, Deen J, Clemens J. Organizational aspects and implementation of data systems in large scale studies in less developed countries. BMC Public Health. 6: e86, 2006.

237. Kari K, Liu W, Guatammi K, Mamman M, Clemens J, Nisalek A, Kim H, Xu ZY. Surveillance for Japanese encephalitis in Bali, Indonesia. BMC Med 4(6):e8, 2006.

238. Liu W, Clemens J, Yang JM, Xu ZY. Immunization against Japanese encephalitis in China: a policy analysis. Vaccine 24:5178-82, 2006.

239. Khan MI, Ochiai L, Hanza H, Sahito S, Habib M, Soofi S, Ghutto N, Rasool S, Puri M, Ali M, Wasan S, Khan M, Elyazeed R, Ivanoff B, Galindo C, Pang T, Dunna A, von Seidlein L, Acosta C, Clemens J, Nizami S, Bhutta Z. Lessons and implications from a mass immunization campaign in squatter settlements of Karachi, Pakistan: an experience from a cluster-randomized, double-blind controlled clinical trial. Trials 7:17, 2006.

240. Emch M, Ali M, Park JK, Yunus M, Sack D, Clemens J. Relationship between neighborhood level oral cholera vaccine coverage and protective efficacy: evidence for herd immunity.

International Journal of Epidemiology. 35: 1044-50, 2006.

241. von Seidlein L, Kim DR, Ali M, Lee H, Wang XY, Vu DT, Chaicumpa W, Agtini M, Hossain A, Bhutta Z, Mason C, Sethabutr O, Talukder K, Nair GB, Deen JL, Kotloff K, Clemens J.

A prospective, population-based, multi-centre study of *Shigella* diarrhoea in six Asian countries: disease burden, clinical manifestations and microbiology PLoS Med. 3: e353, 2006.

242. Deen J, Clemens J. Issues in the design and implementation of vaccine trials in less developed countries. Nature Reviews Drug Discovery. 932-40, 2006.

243. Dutta S, Sur D, Manna B, Sen B, Deb A, Deen J, Wain J, von Seidlein L, Ochiai RL, Clemens J, Bhattacharya SK. Evaluation of new generation serological tests for diagnosis of typhoid fever: Data from community-based surveillance in Calcutta, India. Diagnostic Microbiology and Infectious Diseases. 56: 359-65, 2006.

244. Janjua N, Khan MI, Clemens J. Estimates of intraclass correlation coefficient and design effect for surveys and cluster randomized trials on injection use in Pakistan and developing countries. Tropical Medicine and International Health 11: 1832-40, 2006.

245. Chompook P, Todd J, Wheeler, von Seidlein L, Clemens J, Chaicumpa W. Risk factors for shigellosis in Thailand. International Journal of Infectious Diseases. 10: 425-33, 2006.

246. Thiem V, Canovaro-Holiday C, Canh DG, Son N, Hoa N, Thuy D, Ochiai R, Lan N, Hop T, Ali M, Park J, Abu-Elyazeed R, Holiday K, Ivanoff B, Anh D, Pang T, Donner A, Galindo C, Trach DD, Clemens J, Acosta C. The feasibility of a school-based Vi polysaccharide vaccine mass immunization campaign in Hue City, central Vietnam: streamlining a typhoid fever preventive strategy. Southeast Asian Journal of Tropical Medicine and Public Health. 37: 515-22, 2006.

247. Han H, Choi S, Lee J, Lee H, Shin E, Agtini M, von Seidlein L, Ochiai L, Clemens J, Wain J, Han J, Lee B, Song M, Chun J, Kim D. Isolation of *Salmonella enteritidis* subspecies enteritica serovar Paratyphi B dT+, or *Salmonella Java*, from Indonesia and alteration of d-tartrate fermentation phenotype by disrupting ORF STM 3356. Journal of Medical Microbiology 55: 1661-5, 2006.

248. Agtini M, Ochiai RL, Soeharno R, Lee HJ, Sundoro J, Hadinegoro S, Han O, Tana L, Halim F, Ghani L, Delima, Lestari W, Sintawati F, Kusumawardani N, Malik R, Santoso T, Nadjib M, Soeroso S, Wangsasputra F, Ali M, Ivanoff B, Galindo C, Pang T, Clemens J, Sewandono A, Acosta C. Introducing Vi polysaccharide typhoid vaccine to primary school children in North Jakarta, Indonesia, via an existent school-based vaccination platform. Public Health. 120: 1081-7, 2006.

249. Emch M, Ali M, Acosta C, Yunus M, Sack D, Clemens J. Efficacy calculation in randomized trials: global or local measures? Health Place. 13: 238-48, 2007.
250. Acosta CJ, Galindo CM, Ochiai RL, Danovaro-Holliday MC, Page AL, Thiem VD, Jin Y, Khan MI, Sahito SM, Hamza HB, Park JK, Lee H, Bock H, Abu Elyazeed R, Albert MJ, Ascaso C, Robles TQ, Ali M, Ngai P, Puri MK, Koo YM, Agtini MD, Soeharno R, Bai-qing D, Kohl D, Xu ZY, Ivanoff B, Jodar L, Pang T, Bhutta Z, Clemens JD. Implementation of good clinical practice guidelines in vaccine trials in developing countries. Vaccine. 25: 2852-7, 2007.
251. Kaljee LM, Van P, Nguyen DS, Nguyen TH, Vu DT, Do GC, Le TKT, Ali M, Ochiai RL, Danovaro-Holliday MC, Acosta CJ, Stanton B, Clemens J. Trial participation and vaccine desirability for Vi polysaccharide typhoid fever vaccine in Hue City, Viet Nam. Journal of Tropical Medicine and International Health 12: 25-36, 2007.
252. Qadri F, Chowdhury M, Faruque S, Salam M, Ahmed T, Begum Y, Saha A, Tartique A, von Seidlein L, Park E, Killeen K, Mekalanos J, Clemens J, Sack D. Peru-15, a live attenuated oral cholera vaccine is safe and immunogenic in Bangladeshi toddlers and infants. Vaccine. 25: 231-8, 2007.
253. Anh D, Lopez AL, Thiem V, Long P, Shin N, Deen J, von Seidlein L, Carbis R, Han S, Shin S, Attridge S, Holmgren J, Clemens J. Safety and immunogenicity of a reformulated, Vietnamese, bivalent, killed whole cell, oral cholera vaccine in adults. Vaccine. 25: 1149-55, 2007.
254. Dong B, Galindo C, Shin E, Acosta C, Page AL, Wang W, Kim D, Ochiai RL, Park J, Ali M, von Seidlein L, Xu ZY, Yang J, Clemens J. Optimizing typhoid fever case definitions by combining serological tests in a large population study in Hechi city, China. Epidemiology and Infection. Jan 12: 1-7, 2007.
255. Ali M, Thiem V, Park JK, Ochiai RL, Canh DG, Danovaro-Holliday MC, Kaljee L, Clemens J, Acosta C. Geographic analysis of vaccine uptake in a cluster-randomized, controlled trial in Hue, Vietnam. Health Place. 13: 577-87, 2007.
256. Kennedy W, Chang S, Purdy K, Le T, Kilgore P, Kim J, Ahn DA, Huoz PL, Dong B, Tan D, Clemens J, Ward J. Incidence of bacterial meningitis in Asia using enhanced CSF testing: polymerase chain reaction, latex agglutination, and culture. Epidemiology and Infection. Feb 5: 1-10, 2007.
257. Ochiai L, Acosta C, Agtini M, Bhattacharya S, Bhutta Z, Do C, Dong B, Chen X, Stanton B, Kaljee L, Nyamete A, Galindo C, von Seidlein L, De Roeck D, Jodar L, Clemens J. The use of typhoid vaccines in Asia: the DOMI experience. Clinical Infectious Diseases. 45 (Suppl 1): S34-8, 2007.

258. Mahoney R, Krattiger A, Clemens J, Curtiss R. The introduction of new vaccines into developing countries IV: global access strategies. Vaccine 25: 4003-11, 2007.
259. Faruque S, Tam V, Chowdhury N, Diraphat P, Dziejman M, Heideberg J, Clemens J, Mekalanos J, Nair GB. Genomic analysis of the Mozambique strain of Vibrio cholerae O1 reveals the origin of El Tor strains carrying classical CTX prophage. Proceedings of the National Academy of Sciences US 104: 5151-6, 2007.
260. Ding D, Hong Z, Zhao S-J, Clemens J, Xu ZY, Zhou B, Wang B, Huang MS, Zeng J, Guo Q, Liu W, Tao F-B. Long-term disability from acute childhood Japanese encephalitis in Shanghai, China. American Journal of Tropical Medicine and Hygiene 77: 528-33, 2007.
261. DeRoeck D, Jodar L, Clemens J. Putting typhoid vaccination the global health agenda. New England Journal of Medicine 357: 1069-71, 2007.
262. Ansaruzzaman M., NA Bhuiyan, Ashrafus Safa, Marzia Sultana, Arminda Mcuamule, C. Mondlane, Xuan Yi Wang, J. Deen, L von Seidlein, John D Clemens, Marcelino Lucas, David A Sack, G.B. Nair. Genetic diversity of El Tor strains of V. cholerae O1 with hybrid traits isolated from Bangladesh and Mozambique. International Journal of Medical Microbiology 297:443-9, 2007.
263. Choi S, Jeon Y, Lee J, von Seidlein L, Clemens J, Dougan G, Wain J, Yu J, Lee B, Song J, Song M, Czerkinsky C, Chun J, Kim DW. MLST analysis of Shigella strains collected in Asian countries. Journal of Medical Microbiology 56: 1460-6, 2007.
264. Zhou WZ, Koo H, Wang XY, Zhang J, Park JK, Zhu F, Deen J, Acosta C, Chen Y, Wang H, Galindo CM, Ochiai L, Park T, von Seidlein L, Xu Z, Clemens JD. Revaccination with locally-produced Vi typhoid polysaccharide vaccine among Chinese school-aged children: Safety and immunogenicity findings. Pediatric Infectious Disease Journal 26: 1001-5, 2007.
265. Ali M, Jin Y, Kim DR, De ZB, Park JK, Ochiai RL, Dong B, Clemens JD, Acosta C. Spatial risk for gender-specific adult mortality in an area of southern China. International Journal of Health Geography 6:31, 2007.
266. Sur D, Ali M, von Seidlein L, Manna B, Deen J, Acosta C, Clemens J, Bhattacharya SK. Comparisons of predictors for typhoid and paratyphoid fever in Kolkata, India. BMC Public Health 7:289, 2007.
267. Longini I, Nizam A, Ali M, Yunus M, Shenvi N, Clemens J. Controlling endemic cholera with oral vaccines. PLoS Medicine 4:e336, 2007.

268. Chau TT, Campbell JI, Galindo CM, Van Minh Hoang N, Diep TS, Nga TT, Van Vinh Chau N, Tuan PQ, Page AL, Ochiai RL, Schultz C, Wain J, Bhutta ZA, Parry CM, Bhattacharya SK, Dutta S, Agtini M, Dong B, Honghui Y, Anh DD, Canh DG, Naheed A, AlbertMJ, Phetsouvanh R, Newton PN, Basnyat B, Arjyal A, La TT, Rang NN, Phuong LT, Van Be Bay P, von Seidlein L, Dougan G, Clemens JD, Vinh H, Hien TT, Chinh NT, Acosta CJ, Farrar J, Dolecek C. Salmonella enterica Serovar Typhi: Antimicrobial drug resistance in Asia and the molecular mechanism of reduced susceptibility to the fluoroquinolones. Antimicrobial Agents and Chemotherapy 51: 4315-23, 2007.
269. von Seidlein L, Deen JL, Gupta VK, Park JK, Puri M, Ali M, Vu DT, Lopez AL, Dang DA, Do GC, Shin S, Clemens J. Using a fingerprint recognition system in a vaccine trial to avoid random exposure misclassification. Bulletin of the World Health Organization 85: 64-7, 2007.
270. Nelson EA, Bresee J, Parashar U, Widdowson M, Glass R, Asian Rotavirus Network. Rotavirus epidemiology: the Asian Rotavirus Surveillance Network. Vaccine 26: 2192-6, 2008.
271. Lopez AL, Clemens J, Deen J, Jodar L. Cholera vaccines for the developing world. Human Vaccines 4: 165-9, 2008.
272. Ochiai RL, Acosta C, Danovaro-Holliday MC, Dong B, Bhattacharya SK, Agtini M, Bhutta Z, Do GC, Ali M, Shin S, Wain J, Page A-L, Albert J, Deen J, Farrar J, Dang DA, Yang H, Abu-Elyazeed R, Pang T, Xu ZY, Galindo C, von Seidlein L, Clemens J. A multicenter, population-based, prospective surveillance study of typhoid fever in 5 Asian countries: disease burden and implications for control. Bulletin of the World Health Organization 86: 260-8, 2008.
273. von Seidlein L, Macuamale A, Puri M, Hendrikson I, Deen J, Chaignat C, Clemens J, Ansarrazuman M, Barretto A, Songane F, Lucas M. Is HIV infection associated with an increased risk of cholera? Findings from a case control study in Mozambique. Tropical Medicine and International Health 13: 683-8, 2008.
274. Mahalanabis D, Lopez AL, Sur D, Deen J, Manna B, von Seidlein L, Carbis R, Han SH, Shin SH, Attridge S, Rao R, Holmgren J, Clemens J, Bhattacharya SK. A randomized, placebo-controlled trial of the bivalent killed, whole-cell, oral cholera vaccine in adults and children in a cholera endemic area in Kolkata, India. PLoS One 3: e2323, 2008.
275. Riewpaiboon A, Youngkon S, Sreshthaputra N, Stewart J, Sanonsornsuk S, Chaicumpa W, von Seidlein L, Clemens JD. A cost function of shigellosis in Thailand. Value Health. 11 (Suppl 1): S75-83, 2008.

276. DeRoeck D, Ochiai RL, DeRoeck D, Ochiai RL, Yang J, Dang DA, Alag V, Clemens J. Typhoid vaccination: the Asian experience. Expert Review of Vaccines 7: 547-60, 2008.
277. Liu W, Clemens J, Kari K, Xu ZY. Cost-effectiveness of Japanese encephalitis (JE) immunization in Bali, Indonesia. Vaccine 26: 4456-60, 2008.
278. Deen J, von Seidlein L, Sur D, Agtini M, Lucas M, Lopez AL, Kim DR, Ali M, Clemens J. The high burden of cholera in children: Comparison of incidence from endemic areas in Asia and Africa. PLoS Neglected Tropical Diseases 2:e173, 2008.
279. Chen X, Stanton B, Pach A, Nyamete A, Ochiai RL, Kaljee L, Dong B, Sur D, Bhattacharya SK, Santoso SS, Agtini M, Memon Z, Bhutta Z, Do CG, von Seidlein L, Clemens J. Adult perceived prevalence of enteric fever predicts laboratory-validated incidence of typhoid fever in children. Journal of Health, Population and Nutrition 25: 469-78, 2008.
280. Kim D, Do GC, Poulos C, Le TK, Cook J, Nguyen TH, Nyamete A, Dang TD, Deen J, Clemens J, Vu DT, Dang DA, Whittington D. Private demand for cholera vaccines in Hue, Vietnam. Value in Health 11:119-28, 2008.
281. Andre F, Booy R, Bock H, Clemens J, Datta S, John T, Lee, B, Lolekha S, Peltola H, Ruff T, Santosham M, Schmidt J. Vaccination greatly reduces disease, disability, death and inequity worldwide. Bulletin of the World Health Organization 86: 140-6, 2008.
282. Ali M, Emch M, Yunus M, Sack D, Lopez Al, Holmgren J, Clemens J. Vaccine herd protection of Bangladeshi infants and young children against cholera: implications for vaccine deployment and person-to-person transmission. Pediatric Infectious Disease Journal 27: 33-7, 2008.
283. Guh S, Chen X, Poulos C, Zhang Q, Cao J, von Seidlein L, Chan J, Wang X, Zanchun X, Nyamete A, Clemens J, Whittington D. Comparison of cost-of-illness and willingness-to-pay estimates to avoid shigellosis: evidence from China. Health Policy and Planning 23: 125-36, 2008.
284. Kim D, Ali M, Thiem V, von Seidlein L, Clemens J. Geographic area analysis of shigellosis in Vietnam. Health Place 14: 755-67,
285. Ali M, Clemens J. Ecological aspects in vaccine trials. Expert Review of Vaccines 7: 279-81, 2008.
286. Ansarazzaman A, Chowdhury A, Bhuiyan N, Sultana M, Safa A, Lucas M, von Seidlein L, Barreto A, Chaignat C-L, Sack D, Clemens J, Nair GB, Choi S, Jeon Y, Lee J, Kim D. Characteristics of a pandemic clone of O3:K6 and O4:K68 serotypes of Vibrio parahemolyticus isolated from hospitalized diarrhea cases in

Beira, Mozambique. Journal of Clinical Microbiology 57: 1502-7, 2008.

287. Cook J, Jeuland M, Whittington D, Poulos C, Clemens J, Sur D, Anh DD, Agtini M, Bhutta Z. The cost-effectiveness of typhoid Vi vaccination programs: calculations for four urban sites in four Asian Countries. Vaccine. 26: 2605-16, 2008.

288. Memon Z, Pach A, Rifkin M, Han O, Stanton B, Clemens J, Bhutta Z. Health care preferences for children with typhoid fever in two slum communities in Karachi, Pakistan. Southeast Asian Journal of Tropical Medicine and Public Health. 39: 1110-25, 2008.

289. Cook J, Jeuland M, Maskery B, Lauria D, Sur D, Clemens J, Whittington D. Using private demand studies to calculate socially optimal vaccine subsidies in developing countries. Journal of Policy Analysis and Management. 28: 6-28, 2009.

290. Ahn D, Kilgore P, Nyambat B, Tho L, Yoshida L, Nguyen H, Nguyen C, Chey C, Nguyen D, Ariyoshi K, Clemens J, Jodar L. Surveillance of pneumococcal-associated disease among hospitalized children in Khan Hoa Province, Vietnam. Clinical Infectious Diseases. 48(S2): 57-64, 2009.

291. Ali M, Emch M, Yunus M, Clemens J. Modelling spatial heterogeneity of disease risk and evaluation of the impact of vaccination. Vaccine 27: 3724-9, 2009.

292. Nguyen BM, Lee J, Chuong J, Choi S, Hien N, Anh D, Lee H, Ansurrazaman M, Endtz H, Chun J, Lopez A, Czerkinsky C, Clemens J, Kim DW. Cholera outbreaks caused by an altered Vibrio cholerae 01 El Tor biotype strain producing classical type toxin B in Vietnam 2007-8. Journal of Clinical Microbiology 47: 1568-71, 2009.

293. Sur D, Ochiai RL, Sujit K, Bhattacharya S, Ganguly N, Ali M, Manna B, Dutta S, Donner A, Kanungo S, Park JK, Puri M, Kim DR, Dutta D, Bhaduri B, Acosta C, Clemens J. A cluster-randomized effectiveness trial of Vi typhoid vaccine in India. New England Journal of Medicine 361: 335-44, 2009.

294. Jeuland M, . Cook J, Poulos C, Clemens J, Whittington D. Cost-effectiveness of new generation oral cholera vaccines: a multi-site analysis. Value in Health 12: 899-908, 2009.

295. Sur D, Lopez A, Kanungo S, Paisley A, Manna B, Al M, Niyogi S, Park JK, Sarkar B, Pur M, Kim D, Deen J, Holmgren J, Carbis R, Rao R, Nguyen TV, Donner A, Ganguly NK, Nair GB, Bhattacharya SK, Clemens JD. Protection and safety of a modified, killed whole cell oral cholera vaccine in India: a cluster-randomized, double-blind, placebo-controlled trial.

Lancet 374: 1694-702, 2009.

296. Sur D, Chakraborty N, Kaljee L, Riel R, Pach A, Kanungo S, Deen J, Ochiai RL, Clemens J, Bhattacharya SK. Vaccine desirability during an effectiveness trial of the typhoid fever polysaccharide Vi vaccine, Kolkata, India. Human Vaccines 5: 614-20, 2009.

297. Kanungo S, Paisley A, Lopez AL, Bhattacharya M, Manna B, Kim DR, Han SH, Attridge S, Carbis R, Rao R, Holmgren J, Clemens JD, Sur D. Immune responses following one and two doses of the reformulated, bivalent, killed, whole-cell, oral cholera vaccine among adults and children in Kolkata India: A randomized, placebo-controlled trial. Vaccine 27:6887-93, 2009.

298. Lee J, Lee HR, Choi SY, Jeon Y-S, Kim EK, Minh NB, Nguyen TH, Ansaruzzaman M, Islam SM, Bhuiyan N, Nair GB, Czerkinsky C, Clemens JD, Chun J, Kim DW. Classification of hybrid and altered *Vibrio cholera* strains by CTX prophage and RS1 element structure. Journal of Microbiology. 47: 783-8, 2009.

299. Sur D, Manna B, Chakraborty N, Kaljee L, Riel R, Pach A, Kanungo S, Deen J, Ochiai R, Clemens J, Bhattacharya S. Vaccine desirability during an effectiveness trial of the typhoid fever polysaccharide Vi vaccine, Kolkata India. Human Vaccines. 5: 614-20, 2009.

300. Zafar A, Hasan R, Nizami S, von Seidlein L, Soofi s, Ahsan T, Chandio S, Habib A, Bhutto N, Siddiqui F, Rizui A, Clemens J, Bhutto Z. Frequency of isolation of various subtypes and antibiotic resistance of *Shigella* from urban slums of Karachi, Pakistan. International Journal of Infectious Diseases. 13: 668-72, 2009.

301. Mtove G, Amos B von Seidlein L, Hendriksen I, Mwambuli A, Kimera J, Mallahiyo R, Kim DR, Ochiai RL, Clemens JD, Reyburn H, Magesa S, Deen J. Invasive salmonellosis among children admitted to a rural Tanzanian hospital and comparison with previous studies. PLoS One e9244, 2010.

302. Kanungo S, Sah B, Lopez AL, Suy T, Paisley A, Sur D, Clemens J, Nair GB. Cholera in India: an analysis of reports, 1997-2006. Bulletin of the World Health Organization, 88: 185-91, 2010.

303. Ali M, Sur D, Lopez A, Kanungo S, Ochiai R, Manna B, Kim DR, Deen J, Bhattacharya S, Clemens J. Community participation in two trial in the slums of Kolkata: a multilevel analysis. Journal of Health Population and Nutrition. 28: 450-7, 2010.

304. Dong B, Yang J, Wang X, Gong J, von Seidlein L, Wang M, Lin M, Lia H, Ochiai R, Xu ZY, Jodar L, Clemens J. Trends and disease

burden of enteric fever in Guangxi Province, China, 1994-2004. Bulletin of the World Health Organization. 88: 689-96, 2010.

305. Kanungo S, Tsuziki A, Deen J, Lopez A, Manna B, Sur D, Kim D, Gupta V, Ochiai R, Ali M, von Seidlein L, Bhattacharya S, Clemens J. Use of verbal autopsies to determine mortality patterns in an urban slum in Kolkata, India. Bulletin of the World Health Organization. 88: 6667-71, 2010.

306. Clemens J. Dr. John Clemens' Acceptance Speech: 2010 Albert B. Sabin Gold Medal Award. Human Vaccines. 6(9) (epub), 2010.

307. Senouci K, Blau J, Nyambat B, Coumber F, Gautier L, da Silva A, Favorov M, Clemens J, Stoeckel P, Gessner B. The Supporting Independent Immunization and Vaccine Administration Committees (SIVACS) Initiative: a country-driven, multi-partner program to support evidence-based decision-making. Vaccine. 28 (Suppl): A26-30, 2010.

308. Clemens J, Holmgren J, Kaufmann S, Mantovani A. Ten years of the Global Alliance for Vaccines and Immunization: challenges and progress. Nature Immunology. 11:1069-72, 2010.

309. Waldor M, Hotez P, Clemens J. A national cholera vaccine stockpile—a new humanitarian and diplomatic resource. New England Journal of Medicine 363: 2279-82, 2010.

310. Parry CM, Chau TT, Dongol S, Karkey A, Vinh H, Chinh NT, Duy PT, Nga TVT, Campbell JI, Hoang NVM, Arjyal A, Bhutta ZA, Bhattacharya SK, Agtini MD, Dong B, Canh DG, Naheed A, Wain J, Hien TT, Basnyat B, Ochiai L, Clemens J, Farrar JJ, Dolecek C, Baker S. Suitable antimicrobial disk susceptibility breakpoints defining *Salmonella enteric* serovar Typhi with reduced susceptibility to fluoroquinolones. Antimicrobial Agents and Chemotherapy 54:5201-5208, 2010.

311. Khan MI, Ochiai RL, Clemens JD. Population impact of Vi capsular polysaccharide vaccine. Expert Reviews of Vaccines. 9:485-96, 2010.

312. Choi SY, Lee J, Kim EJ, Lee H, Jeon YS, von Seidlein L, Deen J, Ansaruzzaman M, Lucas M, Barreto A, Songane F, Mondiane C, Nair G, Czerkinsky C, Clemens J, Chun J, Kim DW. Classical RS1 and environmental RS1 elements in *Vibrio cholerae* 01 El Tor strains harboring a tandem repeat of CTX prophage: revisiting Mozambique in 2005. Journal of Medical Microbiology. 59: 302-8, 2010.

313. Ali M, Jiddawi M, Khatib A, Saleh A, Enwere G, Beard J, Chang N, Clemens J, Deen J, Hashim R, Ley B, Lopez A, Puri M, Reyburn R, Sah B, von Seidlein L, Thriemer K. Paperless registration during a census and large oral cholera mass

vaccination in Zanzibar. Bulletin of the World Health Organization. 88: 556-9, 2010.

314. Cui C, Carbis R, An SJ, Czerkinsky C, Szu S, Clemens J. Physico-chemical characterization and immunological properties of Salmonella serotype Typhi capsular polysaccharide-diphtheria toxoid conjugates. Clinical and Vaccine Immunology. 17: 73-9, 2010.

315. Liu W, Gibbons G, Kari K, Clemens J, Nisalak A, Marks F, Xu ZY. Risk factors for Japanese encephalitis: a case-control study. Epidemiology and Infection. 138: 1292-7, 2010.

316. Choi SH, Lee JH, Jeon Y, Lee HR, Kim EJ, Ansaruzzaman M, Bhuiyan N, Endtz H, Niyogi SK, Sarkar BL, Nair GB, Nguyen BM, Hien NT, Czerkinsky C, Clemens JD, Chun J, Kim DW. Multilocus Variable Number Tandem Repeats Analysis (MLVA) of Vibrio cholerae O1 El Tor Strains Harboring Classical Toxin B. Journal of Medical Microbiology 59: 763-9, 2010.

317. Anh D, Lopez A, Vu DT, Grahek S, Tran ND, Park JK, Kwon HJ, Favorov M, Nyuyen TH, Clemens J. Use of oral cholera vaccines in an outbreak in Vietnam: a case-control study. PLoS Neglected Tropical Diseases. 5: e1006, 2011

318. Poulos C, Riewpaiboon A, Stewart J, Guh S, Agtini M, Anh DD, Baiqing D, Bhutta Z, Sur D, Whittington D, and the DOMI Typhoid COI Study Group. Cost of illness due to typhoid fever in five Asian countries. Tropical Medicine and International Health. 16: 314-23, 2011.

319. Reyburn R, Deen J, Grais R, Bhattacharya S, Sur D, Lopez A, Jiddawi M, Clemens J, von Seidlein L. The case for reactive mass oral cholera vaccinations. PLoS Neglected Tropical Diseases. 5: e952, 2011.

320. Soofi S, Habib M, von Seidlein L, Khan M, Muhammad S, Bhutto N, Khan M, Rasool S, Zafar A, Clemens J, Nizami Q, Bhutta Z. A comparison of disease caused by Shigella and Campylobacter species: 24 months of community based surveillance in four slums of Karachi, Pakistan. Journal of Infection Public Health. 4: 12-21, 2011.

321. Clemens J, Shin S, Ali M. New approaches to the assessment of vaccine herd protection in vaccine trials. Lancet Infectious Diseases. 11: 482-7, 2011.

322. Clemens J. Evaluation of vaccines against enteric infections: a clinical and public health research agenda. Philosophical Transactions B. 366: 2799-805. 2011.

323. Mutreja A, Kim DW, Thomson N, Connor TR, Lee JH, Kariuki S, Croucher N, Choi SY, Harris SR, Lebens M, Niyogi SK, Kim EJ, Ramamurthy T, Chun J, Wood J, Clemens JD, Czerkinsky C, Nair GB,

Holmgren J, Parkhill J, Dougan G. Evidence for multiple waves of global transmission within the seventh cholera pandemic. Nature. 477: 462-5, 2011.

324. Ali M, Emch M, Park JK, Yunus M, Clemens J. Natural cholera infection-derived immunity in an endemic setting. Journal of Infectious Diseases. 204: 912-8. 2011.

325. Poulos C, Riewpaiboon A, Stewart J, Clemens J, Guh S, Agtini M, Sur D, Islam Z, Lucas M, Whittington D. Costs of illness due to endemic cholera. Epidemiology and Infection. April 18: 1-10, (Epub ahead of print), 2011.

326. Khan MI, Ochiai R, Soofi S, von Seidlein L, Khan MJ, Sahito S, Habib M, Puri M, Park JK, You YA, Ali M, Nizami S, Acosta C, Sack RB, Clemens J, Bhutta Z. Risk factors associated with typhoid fever in children aged 2-16 years in Karachi, Pakistan. Epidemiology and Infection. May 31: 1-8 (Epub ahead of print), 2011.

327. Ali M, Sur D, Kim D, Kanungo S, Bhattacharya S, Manna B, Ochiai RL, Clemens J. Impact of Vi vaccination on spatial patterns of typhoid fever in the slums of Kolkata, India. Vaccine. September 19 (Epub ahead of print), 2011.

328. Saha A, Chowdhury M, Khanam F, Bhuiyan M, Chowdhury F, Khan A, Khan I, Clemens J, Ali M, Cravioto A, Qadri F. Safety and immunogenicity of a killed bivalent (01 and 0139) whole-cell oral cholera vaccine Shanchol in Bangladeshi adults and children as young as one year of age. Vaccine. September 9 (Epub ahead of print), 2011.

329. Shin S, Desai S, Sah B, Clemens J. Oral cholera vaccines. Clinical Infectious Diseases. S2:1343-9. Epub. April 14. 2011.

330. Wang X-Y, Kilgore P, Lim K, Wang S-M, Lee L, Mo M-Q, Batmunkh N, Ma J-C, Favorov M, Clemens J, and Deng W. Influenza and bacterial pathogen co-infections in the 20th century. Interdisciplinary Perspectives on Infectious Diseases 2011: 1456376. Epub. May 11. 2011.

331. Ley B, Thriemer K, Ame SM, Mtove G, von Seidlein L, Amos B, Hendriksen I, Mwambuli A, Shoo A, Kim DR, Ochiai RL, Favorov M, Clemens JD, Wilfing H, Deen JL, Saidi MA. Assessment of a Rapid Diagnostic Test (Tubex®) for the diagnosis of typhoid fever among children admitted to two Tanzanian rural hospitals and a comparison with previous studies. BMC Infectious Diseases. 11: 147, 2011.

332. Sur D, Kanungo S, Sah B, Manna B, Ali M, Paisley A, Niyogi S, Park JK, Sarkar B, Puri M, Kim DR, Deen J, Holmgren J, Carbis R, Rao R, Nguyen TV, Han SH, Attridge S, Donner A, Ganguly NK, Bhattacharya S, Nair GB, Clemens J, Lopez AL. Efficacy of a low-cost, inactivated whole-cell oral cholera vaccine: results from 3

years of follow up of a cluster-randomized, placebo-controlled trial. PLoS Neglected Tropical Diseases 5(10):e1289, 2011.

333. Clemens J, Shin S, Sur D, Nair GB, Holmgren. New generation vaccines against cholera. Nature Reviews in Gastroenterology and Hepatology. 52:1343-9, 2011.

334. Mtove G, Amos B, Nadjm B, Henrikson I, Dondorp A, Mwanbuli A, Kim D, Ochiai R, Clemens J, von Seidlein L, Rayburn H, Deen J. Decreasing incidence of severe malaria and community-acquired bacteremia among hospitalized children in Muheza, northeastern Tanzania, 2006-2010. Malaria Journal. 10: 320, 2011.

335. Ali M, Lopez A, Yu Y, Kim Y, Sah B, Maskery B, Clemens J. Global burden of cholera. Bulletin of the World Health Organization 90: 209-18, 2011.

336. Desai S, Clemens J. An overview of cholera vaccines and their public health implications. Current Opinion in Pediatrics. 24: 85-91, 2011

337. Soofi S, Haq I, Khan M, Siddiqui M, Mirani M, Tahir R, Hussain I, Puri M, Suhaq Z, Khweja A, Lasi A, Clemens J, Favorov M, Ochiai R, Bhutta Z. Schools as potential vaccination venues for vaccines outside the regular EPI schedule: results from a school census in Pakistan. BMC Research Notes. January 6, 2012. 5(1):6 (Epub ahead of print).

338. Holt K, Datta S, Manna B, Bhattacharya S, Bhadur B, Pickard D, Ochiai R, Ali M, Clemens J, Dougan G. High resolution genotyping of an endemic Salmonella typhi population during a Vi (typhoid) vaccination trial in Kolkata. PLoS Neglected Tropical Diseases Jan 6:e1490, 2012.

339. Thriemer K, Ley B, Ame S, von Seidlein L, Pak G, Chang N, Hashim R, Schmied W, Busch C, Nixon S, Morrissey A, Puri M, Ali M, Ochiai RL, Wierzba T, Jiddawi M, Clemens J, Ali S, Deen J. The burden of invasive bacterial infections in Pemba, Zanzibar. PLoS One. 7(2):e30350, 2012.

340. Thriemer K, Ley B, Ame S, Puri M, Hashim R, Chang N, Salim L, Ochiai RL, Wierzba T, Clemens J, von Seidlein L, Deen J, Ali S, Ali M. Replacing paper data collection forms with electronic data entry in the field: findings from a study of community-acquired bloodstream infections in Pemba, Zanzibar. BMC Research Notes. 5(1):113, 2012.

341. Khan MI, Soofi S, Ochiai RL, Habib M, Sahito S, Nizami S, Acosta C, Clemens J, Bhutta Z, and DOMI Typhoid Karachi Vi Effectiveness Study Group. Effectiveness of Vi capsular polysaccharide typhoid vaccine among children: A cluster randomized trial in Karachi, Pakistan. Vaccine (Epub ahead of print), June 18, 2012.

342. Khatib A, Ali M, von Seidlein L, Kim D, Hashim R, Reyburn R, Ley B, Thriemer K, Enwere G, Hutubessy R, Aguado MT, Kieny M-P, Wierzba T, Ali S, Saleh A, Clemens J, Jiddawi M, Deen J

Direct and indirect effectiveness of the oral cholera vaccine in Zanzibar, East Africa: findings from a large mass vaccination campaign. Lancet Infectious Diseases (In Press).

Editorials and Invited Commentaries

1. Clemens J. Evaluating vaccine safety before and after licensure. Bulletin of the World Health Organization 78: 218-19, 2000.

2. Hall A, Clemens J. Adverse reactions to vaccines in the tropics. Tropical Medicine and International Health 5: 229-30, 2000.

3. Clemens J, Jodar L. Hib vaccines for all the world's children? Lancet 366: 101-3, 2005

4. Deen J, Clemens. Antimicrobial therapy for cholera. Lancet 366: 1054-5, 2005

5. Clemens J, Holmgren J. Urgent need of cholera vaccines in public health-control programs. Future Microbiology 4: 381-5, 2009.

6. Clemens J. Meeting on establishment to study invasive salmonellosis in Sub-Saharan Africa. Emerging Infectious Diseases. 15: e2, 2009.

7. Sur D, Nair GB, Lopez AL, Clemens JD, Katoch V, Ganguly NK. Oral cholera vaccines - a call for action. Indian Journal of Medical Research 131: 1-3, 2010

8. Poland G, Levine M, Clemens J. Developing the next generation of vaccinologists. Vaccine. 28: 8227-8, 2010.

9. Bhattacharya S, Black R, Bourgeois AL, Clemens J, Cravioto A, Deen J, Dougan G, Glass R, Grais R, Greco M, Gust I, Holmgren J, Kariuki S, Lambert P-H, Liu M, Longini I, Nair GB, Norrby R, Nossal GJV, Ogra P, Sansonetti P, von Seidlein L, Songane F, Svennerholm A-M, Steele D, Walker R. The cholera crisis in Africa. Science. 324: 885, 2009.

10. Clemens, J. Vaccines in the time of cholera. Proceedings of the National Academy of Sciences (US). 21:8529-30, 2011.

11. Clemens J. Evaluating diagnostics: dengue. Nature Reviews in Microbiology. 8(Suppl 12): S1, 2011.

12. Farmer P, Almazor CP, Bahnsen ET, Barry D, Bazile J, Bloom BR, Bose N, Brewer T, Calderwood SB, Clemens JD, Cravioto A, Eustache E, Jérôme G, Gupta N, Harris JB, Hiatt HH, Holstein C, Hotez PJ, Ivers LC, Kerry VB, Koenig SP, Larocque RC, Léandre F, Lambert W, Lyon E, Mekalanos JJ, Mukherjee JS, Oswald C, Pape JW, Gretchko M, Rabinovich R, Raymonville M, Réjouit JR, Ronan LJ, Rosenberg ML, Ryan ET, Sachs JD, Sack DA, Surena C, Suri AA, Ternier R, Waldor MK, Walton D, Weigel JL. Meeting Cholera's Challenge to Haiti and the World : A Joint Statement on Cholera Prevention and Care. PLoS Negl Trop Dis. 5(5): e1145, 2011

Technical Reports

1. Clemens J, Kotloff K, Kay B. Generic protocol to estimate the burden of Shigella diarrhoea and dysenteric mortality. Department of Vaccines and Biologicals. WHO. 1999 (WHO/V&B/99.26)

Non-Technical Articles

1. Stanton B, Clemens J. Soiled saris. Diarrhoea Dialogue Issue 26. September, 1986.

2. Stanton B, Clemens J. Behaviour and diarrhea: Hygiene education. Diarrhoea Dialogue Issue 30, October, 1987.

Book Chapters

1. Clemens J. Normal results, specificity, sensitivity and predictive value. In Mandell, H.N. (editor) Laboratory Medicine for the Practicing Clinician Littleton: John Wright, PSG: 1983.

2. Clemens J, Stanton B. BCG vaccination against cancer: An assessment of epidemiologic evidence. In Crispen, R. (editor). The Seventh Chicago Symposium, Elsevier: 1983.

3. Horwitz RI, Feinstein AR, Crede W, Clemens J. Does technology work? Judging the validity of clinical experience. In Reiser, S.J., Anbar M. (Editors), The Machine at the Bedside: Strategies for Using Technology in Patient Care. Cambridge, Cambridge University Press: 1984.

4. Holmgren J, Svennerholm AM, Jertborn M, Sack D, Clemens J, Greenough W, Glass RI, Black R, Levine M. Oral subunit whole vaccine. Proceedings of the 20th Joint US-Japan Cholera Conference, Nara, Japan, 1984.

5. Clemens J, Harris J, Sack D, Chakraborty J, Ahmed F, Stanton B, Huda N, Khan MR, Kay B, Neogi PK, Yunus M, Rao MR, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccine in Bangladesh: Efficacy against Vibrio cholerae 01 and heat-labile

toxin-producing enterotoxigenic *Escherichia coli*. Proceedings of the 23rd Joint US-Japan Cholera Conference. Williamsburg, October, 1987.

6. Clemens J, Sack D, Stanton B, Chakraborty J, Khan M.R., Huda S, Harris J, Rahman A, Ahmed F, Rahaman S, Banik A, Yunus M, Chowdhury S. 1985 field trial of cholera vaccines in Bangladesh: Background studies on the method of vaccine delivery, vaccine immunogenicity and vaccine safety. In: Kuwahara S and Pierce N (eds). Advances in Research on Cholera and Related Diarrheas (5). Tokyo, KTK Scientific Publishers, 1988: 225-230.

7. Clemens J, Sack D, Harris J, Chakraborty J, Khan MR, Stanton B, Kay B, Khan MU, Yunus M, Atkinson W, Svennerholm A-M, Holmgren J. 1985 field trial of oral cholera vaccines in Bangladesh. In: Ohtomo N and Sack RB (eds). Advances in Research on Cholera and Related Diarrheas (6). Tokyo, KTK Scientific Publishers, 1988: 169-174.

8. Clemens J, Sack D, Harris J, van Loon F, Chakraborty J, Ahmed F, Rao M, Khan MR, Yunus M, Huda N, Stanton B, Kay B, Walter S, Eeckels R, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh: Results from long-term follow-up. Proceedings of the 25th Joint US-Japan Cholera Conference. Grand Canyon, Arizona, November, 1989.

9. Clemens J, Stanton B. Longer term evaluations of vaccine efficacy. In: Woodrow G, Levine MM (eds). New Generation Vaccines New York, Marcel Dekker (1st edition), 1990: 51-68.

10. Holmgren J, Jertborn M, Svennerholm A-M, Sack D, Clemens J. The oral B subunit/inactivated whole cell vaccine. In: Woodrow G, Levine MM (eds). New Generation Vaccines New York, Marcel Dekker, 1990: 289-303.

11. Holmgren J, Clemens J, Sack D, Sanchez J, Svennerholm A-M. Development of oral vaccines with special reference to cholera. In: Breimer, D and Midah, A (eds.) Topics in Pharmaceutical Sciences. Amsterdam Medical Press B.V., 1990.

12. Clemens J. Assessing the value of enteric vaccines: efficacy, effectiveness, and efficiency. In: Sack D, Freij L (eds). Prospects for Public Health Benefits in Developing Countries from New Vaccines against Enteric Infections. Stockholm, SAREC Documentation, Conference Report 2. 1990: 131-40.

13. Clemens J, Sack D, Rao M, Chakraborty J, Khan MR, Yunus M, Svennerholm A-M, Holmgren J. Design issues for future cholera vaccine trials: epidemiological lessons from Bangladesh. Proceedings of the 28th Joint US-Japan Cholera Conference. Tokyo, July, 1992.

14. Clemens J, Spriggs D, Sack D. Public health considerations

for the use of cholera vaccines in cholera control programs. In: Wachsmith IK, Blake P, Olsvik O (eds). Vibrio cholerae and Cholera: Molecular to Global Perspectives. Washington: American Society for Microbiology 1994, 425-440.

15. Clemens J, Naficy A, Rao M. Longer term evaluations of vaccine efficacy: Methodological issues for Phase 3 and Phase 4 studies. In: Levine MM, Woodrow G, Kaper J, Cobon G (eds). New Generation Vaccines New York, Marcel Dekker (2nd edition), 1997: 47-68.

16. Clemens J, Koo H-W. Phase 3 studies of vaccines. In: Bloom B, Lambert P-H (eds). The Vaccine Book. New York, Academic Press. 2002: 95-118.

17. Clemens J, Naficy A, Rao M, Koo H. Longer term evaluations of vaccine efficacy: Methodological issues for Phase 3 and Phase 4 studies. In: Levine MM, Kaper J, Rappouli R, Liu M, Good M (eds). New Generation Vaccines New York, Marcel Dekker (3rd edition), 2004: 29-49.

18. Jodar L, Clemens J. New approaches towards development, production and use of developing country market vaccines in developing countries. In: Kauffmann S.H.E. and Lambert P.-H. (eds). The Grand Challenge for the Future: Vaccines for Poverty-Related Diseases from Bench to Field. Birkhauser Verlag, 2005:55-76.

19. Clemens J, Ochiai R.L. Sequential stages of clinical trials and overview of issues to be considered. New approaches towards development, production and use of devel In: Kauffmann S.H.E. and Lambert P.-H. (eds). The Grand Challenge for the Future: Vaccines for Poverty-Related Diseases from Bench to Field. Birkhauser Verlag, 2005:231-248.

20. Clemens J, Naficy A, Rao M, Koo H. Longer term evaluations of vaccine efficacy: Methodological issues for Phase 3 and Phase 4 studies. In: Levine MM, Kaper J, Rappouli R, Liu M, Good M (eds). New Generation Vaccines New York, Informa Healthcare (4th edition), 2010.

21. Clemens J, Shin S, Shah B, Sack D. Cholera Vaccines. In: Plotkin S, Orenstein W. (eds). Vaccines (5th edition) (In Press).

Letters

1. Mavalankar DV, Clemens JD. Vitamin A and childhood mortality. Lancet 337:1409-10, 1991.

2. Powers WF, Clemens, JD. Risk factors for bronchopulmonary lemens JD. Prospective risk of stillbirth. Obstetrics and Gynecology 80:473-4, 1992.

3. Darwish M, Farris R, Rao M, Clemens J, Edelman. Hepatitis C

virus in Egypt. Lancet 345: 190, 1995.

4. Steinhoff M, Moulton L, Clemens J. Effectiveness of pneumococcal vaccine. Lancet 351: 1961-2, 1998.

5. Clemens J, Hoffman S, Ivanoff B, Klugman K, Levine M, Neira M, Pang T. Typhoid fever vaccines. Vaccine 17: 2476-8, 1999.

6. Clemens J, Sack D, Ivanoff B. Misleading negative findings in a field trial of killed, oral cholera vaccine in Peru. Journal of Infectious Diseases 183: 1306-1309, 2001.

7. Dutta S, Sur D, Manna B, Battacharya SK, Deen J, Clemens J. Rollback of Salmonella enterica serotype typhi resistance to chloramphenicol and other antimicrobials in Kolkata, India. Antimicrobial Agents and Chemotherapy. 49: 1662-1663, 2005.

8. Thiem V, Canh D, Anh D, Deen J, von Seidlein L, Clemens J, Holmgren J. Response to "Questionable merits of a field trial of oral killed whole cell cholera vaccine in Vietnam during 1998-2003". Vaccine 25: 1353-4, 2007.

PRESENTATIONS

Boyd N, Clemens J, Esseltine D. Pre-therapeutic clinical morbidity in prognostic staging for acute leukemia. Canadian Hematology Society, 46th Annual Meeting of the Royal College of Physicians and Surgeons Toronto, Canada, January, 1977.

Clemens J, Greenough WB, Sack D, Butler T. Rotavirus diarrhoea: An expanding clinical spectrum. The 19th Conference on Antimicrobial Agents and Chemotherapy, Boston, October, 1979.

Clemens J. The choice of controls in case-control research. The Robert Wood Johnson Clinical Scholars Program Annual Meeting, Scottsdale, November, 1980.

Clemens J. Explanatory vs. management strategies in the design of randomized clinical trials. The Robert Wood Johnson Foundation Clinical Scholars Program Annual Meeting, San Antonio, TX, November, 1981.

Clemens J. The limitations of randomized clinical trials. The Sydenham Society Annual Meeting, Washington, May, 1982.

Clemens J. BCG vaccination against cancer. The Seventh Chicago Symposium, Chicago, September, 1982.

Shapiro E, Clemens J. Pneumococcal vaccine: A community-based assessment. 24th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, October, 1984.

Bennish M, Clemens J, Harris J. Risk factors for mortality in

Shigella infections among Bangladeshi children. 24th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, October, 1984.

Clemens J. Oral vaccination against cholera. The Third Asian Conference on Diarrhoeal Disease, Bangkok, Thailand, June, 1985.

Clemens J, Jertborn M, Sack D, Huda S. Khan M, Holmgren J. The effect of gastric acid neutralization upon serum anti-toxic and vibriocidal responses to oral B subunit-whole cell vaccine. International Symposium on Bacterial and the Host, Prague, Czechoslovakia, May, 1985.

Stanton B, Clemens J. Practices differing between families with high rates of diarrhoea versus those with low rates of diarrhoea. 10th Annual Bangladesh Science Conference, Dhaka, Bangladesh, May, 1985.

Stanton B, Clemens J, Ahmed S. Guidelines for safe drinking in Dhaka city. 10th Annual Bangladesh Science Conference, Dhaka, Bangladesh, May, 1985.

Stanton B, Clemens J, Shahid N, Khair T. Follow-up of children discharged from an urban hospital after treatment for diarrhoea. 3rd Asian Conference on Diarrhoeal Diseases, Bangkok, Thailand, June, 1985.

Clemens J, Stanton B, Stoll B, Shahid N, Banu H, Chowdhury AKM. Breastfeeding as a determinant of severity in shigellosis: evidence for protection throughout the first three years of life in Bangladeshi children. 25th Interscience Conference Antimicrobial Agents and Chemotherapy. Minneapolis, October, 1985.

Stanton B, Clemens J. Practices differing between families with high and low rates of diarrhoea. 25th Interscience Conference on Antimicrobial Agents and Chemotherapy. Minneapolis, October, 1985.

Harris J, Kay B, Anzaruzzaman M, Rahaman M, Clemens J, Sack D. Vibrionaceae pathogens: Important diarrhoea-related pathogens in Bangladesh. 25th Interscience Conference on Antimicrobial Agents and Chemotherapy. Minneapolis, October, 1985.

Clemens J, Chakraborty J, Sack D, Stanton B, Huda S, Khan MR, Harris J, Ahmed F, Chowdhury S. B subunit-killed whole cell and

John Clemens

killed whole cell oral cholera vaccines: Immunogenicity and reactogenicity. 21st Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Bethesda, October, 1985.

Clemens J, Sack D, Harris J, Chakraborty J, Khan MR, Stanton B, Kay B, Khan MU, Yunus M, Atkinson W, Svennerholm A-M, Holmgren J. 1985 field trial of oral cholera vaccines in Bangladesh. 26th Interscience Conference on Antimicrobial Agents and Chemotherapy, New Orleans, October, 1986.

Stanton B, Clemens J. Randomized trial of an educational intervention for altering hygienic behaviors to reduce childhood diarrhoea. 26th Interscience Conference on Antimicrobial Agents and Chemotherapy, New Orleans, October, 1986.

Clemens J, Sack D, Harris J, Chakraborty J, Khan MR, Stanton B, Kay B, Khan MU, Yunus M, Atkinson W, Svennerholm A-M, Holmgren J. 1985 field trial of oral cholera vaccine in Bangladesh. 22nd Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Toyama, Japan, 1986.

Clemens J. A field trial of oral cholera vaccines in rural Bangladesh. Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, June, 1986.

Clemens J. Development and field testing of oral vaccines against cholera. Stanford University School of Medicine, Stanford, September, 1986.

Clemens J. The BCG controversy: Biology or methodology? University of Virginia School of Medicine, Charlottesville, September, 1986.

Clemens J. Measles vaccination and childhood mortality in rural Bangladesh. Global Advisory Group Meeting, WHO EPI Programme, New Delhi, India, October, 1986.

Clemens J. B subunit-whole cell and whole cell-only vaccines against cholera: Field results from Bangladesh. National Institute of Hygiene and Epidemiology, Hanoi, Vietnam, February, 1987.

Clemens J. Epidemiology of persistent diarrhea in North Indian children. Conference on Persistent Diarrhoea, WHO CDD Programme, Geneva, Switzerland, April, 1987.

Clemens J, Harris J, Sack D, Chakraborty J, Ahmed F, Stanton B, Khan MU, Kay BA, Huda N, Khan MR, Yunus M, Rao MR, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh: Results of one year of follow-up. 27th Interscience Conference on Antimicrobial Agents and Chemotherapy. New York, NY, October, 1987.

Stanton B, and Clemens J. Impact of a randomized trial of an educational intervention for altering hygiene behaviours on nutritional status. 27th Interscience Conference on Antimicrobial Agents and Chemotherapy. New York, October, 1987.

Clemens J, and Stanton B. Measles vaccination: A method to prevent or merely to postpone childhood deaths in developing countries? The Robert Wood Johnson Clinical Scholars Program Annual Meeting, Scottsdale, October, 1987.

Clemens J, Harris J, Sack D, Chakraborty J, Ahmed F, Stanton B, Khan MU, Kay B, Huda N, Khan MR, Yunus M, Rao MR, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh: Results of one year of follow-up. 23rd Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Williamsburg, VA, November, 1987.

Clemens J, Sack D, Harris J, Chakraborty J, Neogy PK, Stanton B, Huda N, Khan MU, Kay B, Khan MR, Yunus M, Rao MR, Svennerholm A-M, Holmgren J. Efficacy of oral cholera toxin B subunit as a protective immunogen against diarrhoea associated with heat labile toxin-producing enterotoxigenic Escherichia coli: Results of a large-scale field trial. 23rd Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Williamsburg, VA, November, 1987.

Clemens J. Field trial of killed oral cholera vaccines. SEAMO-TROPMED Technical Meeting on Advanced Knowledge on the Vaccines for Tropical Diseases of Public Health Importance in Southeast Asia. Mahidol University, Bangkok, Thailand, February, 1988.

Sack DA, Clemens JD, Chakraborty J, Huda S, Harris JR, Ahmed F, Holmgren J, Svennerholm A-M. Oral vaccines for cholera: New opportunities for effective immunization. XIIth International Congress for Tropical Medicine and Malaria, Amsterdam, The Netherlands, September, 1988.

Clemens J, Sack D, Harris J, Chakraborty J, Khan MR, Huda S, Ahmed F, Gomes J, Rao M, Svennerholm A-M, Holmgren J, ABO blood groups and cholera: New observations on specificity of risk and modification of vaccine efficacy. 28th Interscience Conference on Antimicrobial Agents and Chemotherapy. Los Angeles, October, 1988.

Clemens J, Sack D, Harris J, Khan MR, Chakraborty J, Chowdhury S, Rao MR, Stanton B, Yunus M, Ali M, Ansaruzzaman M. Breast-feeding and the risk of severe cholera in rural Bangladeshi children. 28th Interscience Conference on Antimicrobial Agents and Chemotherapy. Los Angeles, October, 1988.

Clemens J. A field trial of oral cholera vaccines in rural Bangladesh. Department of Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, Ontario, November, 1988.

Clemens J. Epidemiology of measles. Harvard University School of

Public Health, Boston, November 1988 and December 1989.

Clemens J. Field trial of oral cholera vaccines: Results of three years of follow-up. WHO conference on Cholera and ETEC vaccines. Baltimore, December, 1988.

Clemens J. Field trial of oral cholera vaccines in Bangladesh. USAID Technical Advisory Group on Vaccines for Developing Countries. Washington, DC, March, 1989.

Clemens J, Sack D, Harris J, van Loon F, Khan MR, Chakraborty J, Chowdhury S, Rao MR, Stanton B, Yunus M, Ali M, Ansaruzzaman M, Svennerholm A-M, Holmgren J. Field trial of oral cholera vaccines in Bangladesh: Results from long-term follow-up. 25th Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Grand Canyon, November, 1989.

Clemens J. New vaccines against cholera. University of Indonesia, Jakarta, Indonesia, March, 1990.

Clemens J, Rao M, van Loon F, Ahmed F, Sack D. Field assessments of vaccine efficacy: How closely do the results of observational case-control studies approximate randomized trials? American Epidemiological Society Annual Meeting, Baltimore, March, 1990.

Clemens J. Evaluating the value of a vaccine: efficacy, effectiveness, and efficiency. New Vaccines against Enteric Infections: Prospects for Public Health Benefits in Developing Countries, SAREC Symposium, Goteborg, Sweden, May, 1990.

Clemens J. Planning of future large-scale vaccine efficacy trials. Meeting of the Scientific Group of Experts. Program on Vaccines and Transdisease Vaccinology, World Health Organization. Geneva, Switzerland, June, 1990.

Clemens J. Methodological problems in the design of contemporary vaccine field trials. Robert Wood Johnson Clinical Scholars Program. Yale University School of Medicine, New Haven, December, 1990.

Clemens J. Field trial of oral cholera vaccines in Bangladesh. Yale University School of Public Health, New Haven, December, 1990.

Clemens J. BCG vaccine against tuberculosis. Johns Hopkins School of Public Health, Baltimore, April, 1991.

Clemens J. Vaccination against cholera. Pan American Health Organization, Washington, DC, April, 1991.

Clemens J. Field trial of oral cholera vaccines in Bangladesh. International Symposium on Maternal-Child Health, Family Planning, and Diarrhoeal Disease, ICDDR-B- Ministry of Health, Republic of Indonesia, Jakarta, Indonesia, June, 1991.

Clemens J. Progress in cholera vaccines. University of Amsterdam, Amsterdam, The Netherlands, October, 1991.

Clemens J. Design issues for the study of vasectomy as a risk factor for prostatic cancer. Task Force for Epidemiological Research on Reproductive Health. World Health Organization, Geneva, Switzerland, October, 1991.

Clemens J. Impact of measles vaccination upon childhood mortality in less-developed settings. World Conference on Poliomyelitis and Measles (Co-sponsored by the WHO Expanded Programmed on Immunization and the International Comparative Virology Organization), New Delhi, India, January, 1992.

Clemens J. Killed oral vaccines against cholera. First International Conference on Cholera in the Americas. Mexico City, Mexico, March, 1992.

Clemens J. Immunogenic interactions between simultaneously administered PRP-tetanus toxoid conjugate and DTP vaccines. Bureau of Biologics, U.S. Food and Drug Administration, Bethesda, March, 1992.

Clemens J. Design issues in evaluating immunological correlates of protection in vaccine trials. Program on Vaccines and Transdisease Vaccinology, World Health Organization. Geneva, Switzerland, March, 1992.

Clemens J. Design issues for cholera vaccine trials: epidemiological issues from Bangladesh. 28th Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Tokyo, Japan, July, 1992.

Clemens J. The measles-mortality conundrum. Center for Vaccine Development. University of Maryland School of Medicine. Baltimore, September, 1992.

Clemens J. Evaluation of the UNICEF water-sanitation in Upper Egypt. International Symposium on Pediatric Nutrition and Diarrhea. Cairo, Egypt, November, 1992

Clemens J. Field evaluations of cholera vaccines. Symposium on Cholera Toxin. The Wellcome Foundation. Dormy, UK, January, 1993.

Clemens J, Brenner R, Rao M. Vaccine interactions between PRP-T vaccine against *Haemophilus influenzae* type b and conventional infant vaccines: Lessons for future studies of combination vaccines. International Workshop on Combination Vaccines and Simultaneous Immunization (U.S. Food and Drug Administration). Bethesda, July, 1993.

Clemens J. Epidemic of Vibrio cholerae 0139 in Asia. US NIH-NIAID

Scientific Council. Bethesda, September, 1993.

Clemens J. Oral vaccination against cholera: past accomplishments and future challenges. Tulane University School of Public Health and Tropical Hygiene, New Orleans, October, 1993.

Clemens J. Design issues for future field evaluations of cholera vaccines. International Conference on Cholera Vaccines. Dhaka, Bangladesh, October, 1993.

Clemens J. New vaccines against cholera. University of Michigan School of Public Health, Ann Arbor, November, 1993.

Clemens J. Enterotoxigenic E. coli diarrhea: a global health problem. University of Alexandria, Alexandria, Egypt, January, 1994.

Clemens J. Evaluation of effectiveness in vaccine trials. First International Conference on Vaccines. Alexandria, VA, February, 1994.

Clemens J. Workshop on epidemiological methods. Middle East regional cooperative research on hepatitis and persistent diarrhea: annual meeting. Sharm el Sheikh, Egypt, May, 1994.

Clemens J. Clinical evaluation of new vaccines. WHO Course on Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, September, 1994.

Clemens J. Evaluating new vaccines for developing countries: efficacy or effectiveness? Bureau of Biologics, U.S. Food and Drug Administration, Bethesda, October, 1994.

Clemens J. Evaluating new vaccines for developing countries: efficacy or effectiveness? Division of Immunizations, Centers for Disease Control and Prevention, Atlanta, February, 1995.

Clemens J. Conceptual framework for using cholera vaccines in acute emergencies. Consultation on the Use of Cholera Vaccines in Acute Emergencies. World Health Organization, Geneva, Switzerland, February, 1995.

Clemens J. Global epidemiology of cholera. Meeting on New Advances in Bacterial Vaccines. World Health Organization, Madrid, Spain, February, 1995.

Clemens J. Evaluating new vaccines: efficacy or effectiveness? Drug Information Association Annual Meeting, Orlando, FLA, June, 1995.

Clemens J. Clinical evaluation of new vaccines. WHO Course on Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, September, 1995.

Clemens J. Epidemiology of pediatric diarrhea in developing countries. Symposium on Pediatric Enteric Vaccines, Hong Kong, June, 1996

Clemens J. Clinical evaluation of new vaccines. WHO Course on Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, October, 1996.

Clemens J. Evaluating new cholera vaccines for use in refugee settings. 25th Anniversary Symposium, Medecins sans Frontieres, Paris, France, October, 1996.

Trach D, Clemens J, Ke N, et al. Field trial of a locally produced, killed oral cholera vaccine in Vietnam. 33rd Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Nagasaki, Japan. November, 1996.

Clemens J, Savarino S. Diagnosis and treatment of travellers' diarrhea. U.S. Embassy, Cairo, Egypt, May, 1997.

Clemens J. Clinical evaluation of new vaccines. Nordic School of Public Health Summer Course on Infectious Diseases Epidemiology. Copenhagen, Denmark, July, 1997.

Clemens J. Evaluating new vaccines: efficacy or effectiveness? Department of Community Medicine, Ain Shams University, Cairo, Egypt, July 1997.

Clemens J. Clinical evaluation of new vaccines. WHO Course on Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, October, 1997.

Clemens J. Vi capsular polysaccharide vaccine against typhoid fever: options for assessing effectiveness. Third Asian Conference on Typhoid Fever and Other Salmonellosis. Bali, Indonesia, November, 1997.

Clemens J. Efficacy vs. effectiveness trials of vaccines: advantages and disadvantages of each. Symposium on issues in clinical and field trials. First International Conference on Vaccine Research. Washington, DC, June, 1998.

Clemens J. Clinical evaluation of new vaccines. Nordic School of Public Health Summer Course on Infectious Diseases Epidemiology. Stockholm, Sweden, July, 1998.

Clemens J. Long-term evaluations of vaccines. University of Maryland School of Medicine. Baltimore, September, 1998.

Clemens J. Is local production of modern vaccines feasible in developing countries? A case study of oral cholera vaccines. Conference on Vaccinations and Immunizations: Routines, Policies, and Prospects. Danish International Development Agency.

Copenhagen, Denmark, October, 1998.

Clemens J. Efficacy vs. effectiveness perspectives in the evaluation of new vaccines for developing countries. Conference on Vaccinations and Immunizations: Routines, Policies, and Prospects. Danish International Development Agency. Copenhagen, Denmark, October, 1998.

Clemens J. Clinical evaluation of new vaccines. WHO Course on Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, October, 1998.

Clemens J, Elyazeed R, Rao M, Savarino S, Morsy B, Kim Y, Wierzba T, Naficy A, Lee YJ. Early Initiation of Breast-feeding and the Risk of Infant Diarrhea in Rural Egypt. 34th Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Tokyo, Japan, December, 1998.

Clemens J. Targeting vaccines against ETEC. WHO Meeting on ETEC and EHEC. Tokyo, Japan, December, 1998.

Clemens J. Targeting vaccines against EHEC. WHO Meeting on ETEC and EHEC. Tokyo, Japan, December, 1998.

Clemens J. Design of post-licensure studies of pneumococcal and Hib vaccines for developing countries. WHO Consultation on Pneumococcal and Hib vaccines. Geneva, Switzerland, February, 1999.

Clemens J. New-generation vaccines against cholera. Korean Society for Vaccines. Seoul, Korea, November, 1999.

Clemens J. Disease burden estimates for orphan vaccines: what are the gaps? GAVI Research and Development Task Force Meeting. Geneva, Switzerland, November, 1999.

Clemens J. South-south collaborative research on vaccines: the IVI model. UNDP- Republic of Korea international forum on South-South collaboration in science and technology. Seoul, Korea, February, 2000.

Clemens J. The International Vaccine Institute: Programs and Prospects. The Korean Society for Immunology. Seoul, Korea, May, 2000.

Clemens J. The design and analysis of Phase 3 vaccine trials. First International Course on Advanced Vaccinology. Marcel-Merieux Foundation, Annecy, France, June, 2000.

Clemens J. The design and analysis of vaccine effectiveness trials. First International Course on Advanced Vaccinology. Marcel-Merieux Foundation, Annecy, France, June, 2000.

Clemens J. Clinical trials of vaccines. WESTAT-Korea Clinical

Trial Symposium. Seoul, Korea, June, 2000.

Clemens J. Criteria for ascribing side-effects to vaccines. Global Vaccine Safety Advisory Committee Meeting. World Health Organization. Geneva, Switzerland, June, 2000.

Clemens J. Evaluation of new-generation vaccines against *Shigella*. Global Vaccine Research Forum. Montrieux, Switzerland, June, 2000.

Clemens J. Assessing the adequacy of vaccine trials. Networking for New Vaccine Evaluation. World Health Organization. Geneva, Switzerland, June, 2000.

Clemens J. Challenges in estimating disease burden for prioritizing vaccines for developing countries. World Vaccine Congress. Singapore, September, 2000.

Clemens J. Are principles of good clinical practice applicable to trials in developing countries? World Vaccine Congress. Singapore, September, 2000.

Clemens J. The role of bridging studies and effectiveness trials in the evaluation of HIV vaccines. WHO Consultation on Downstream Implementation of HIV Vaccines. Geneva, Switzerland, October, 2000.

Clemens J. Vaccine research and capacity development. International Conference on Health Research. Bangkok, Thailand, October, 2000.

Clemens J. Clinical evaluation of new vaccines. WHO Course on Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, October, 2000.

Clemens J. Efficacy versus effectiveness perspectives in the evaluation of new vaccines for developing countries. Department of Statistics. Seoul National University. Seoul, Korea, November, 2000.

Clemens J. Innovation in field studies to accelerate vaccine introduction into developing countries. GAVI Partners' Meeting. Nordwijk, The Netherlands, November, 2000.

Clemens J. Public health considerations for the introduction of new vaccines into developing countries. WHO SEARO Region Core Meeting on New Vaccines. Jakarta, Indonesia, April, 2001.

Clemens J. The International Vaccine Institute in an era of antibiotic resistance. 3rd International Symposium on Antimicrobial Agents and Resistance. Seoul, Korea, April, 2001.

Clemens J. Assessment of vaccine efficacy vs. vaccine effectiveness. Second International Course on Advanced

Vaccinology. Marcel-Merieux Foundation, Annecy, France, June, 2001.

Clemens J. Clinical evaluations of new vaccines. Nordic School of Public Health Summer Course on Infectious Diseases. Copenhagen, Denmark, June, 2001.

Clemens J. Assessment of vaccine side-effects in developing countries. Recent Developments in Vaccination. Jakarta, Indonesia, August, 2001.

Clemens J. A conceptual framework for research needed to accelerate vaccine introduction in developing countries. Recent Developments in Vaccination. Jakarta, Indonesia, August, 2001.

Clemens J. The importance of proper estimation of disease burden in rational introduction on new vaccines in developing countries. Orphan Vaccines Conference. Cairns, Australia, August, 2001.

Clemens J. Strategies for introducing new vaccines into developing countries. ASCODD Conference. New Delhi, India, September, 2001.

Clemens J. The DOMI Program. ASCODD Conference. New Delhi, India, September, 2001.

Clemens J. Clinical evaluation of new vaccines. WHO Course on Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, October, 2001.

Clemens J. Phase 1-3 trials of new vaccines. Second IVI International Course on Vaccine Evaluation. Ho Chi Minh City, Vietnam, December, 2001.

Clemens J. The need for good local epidemiologic data to guide decisions and priorities for introducing new vaccines into developing countries. Forum for Infectious Diseases of the 21st Century. Osaka, Japan, January, 2002.

Clemens J. Hypothesis testing in Phase 2 trials. Annual International Course on Advanced Vaccinology, Marcel Merieux Foundation, Annecy, France, June, 2002.

Clemens J. The importance of research to generate evidence for policy for introducing new vaccines for the Third World. Norwegian Conference on GAVI. Bergen, Norway, June, 2002

Clemens J. Translational research: generating evidence for vaccine policy. Keynote address. Global Forum on Vaccines. Geneva, Switzerland, June, 2002.

Clemens J. Translational research: generating evidence for vaccine policy. London School of Hygiene and Tropical Medicine.

London, UK, June, 2002.

Clemens J. Clinical evaluation of new vaccines. WHO Course on Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, October, 2002.

Clemens J. The importance of translational research in accelerating vaccine introduction. Euroconference on Research on Poverty-Related Diseases, Sienna, Italy, November, 2002.

Clemens J, Savarino S, Abu-Elyazeed R, Safwat M, Rao M, Wierzba T, Svennerholm A-M, Holmgren J, Park E, Naficy A. Analysis of pathogenicity as a tool for defining outcome events for a field trial of the efficacy of a killed, oral vaccine against enterotoxigenic *Escherichia coli*. 37th Joint Conference of the U.S.-Japan Cooperative Medical Science Program on Cholera and other Bacterial Enteric Infections, Okinawa, Japan, December, 2002.

Clemens J. Phase 1-3 trials of new vaccines. Third IVI International Course on Vaccine Evaluation. Singapore, December, 2002.

Clemens J. Thinking downstream in the development of new vaccines for developing countries. Keynote Address. Novartis Tropical Diseases Institute Inaugural Symposium, Singapore, January, 2003.

Clemens J. Connecting vaccine discovery with vaccine realities: the importance of translational research. 3rd International Meeting of the Edward Jenner Institute for Vaccine Research. Oxford, UK, April, 2003.

Clemens J. The International Vaccine Institute: a model of helping those most in need. International Conference on Child and Youth Health. Vancouver, Canada, May, 2003.

Clemens J. General concepts of hypothesis testing. Fourth Advanced Course on Vaccinology. Annecy, France, May, 2003.

Clemens J. Translational research. IVI Inaugural Symposium on Frontiers in Vaccine Research. Seoul, Korea, June, 2003.

Clemens J. Vaccine strategies for Hib in Asia. Vaccines at the Beginning of the 21st Century. Tokyo, Japan, July, 2003

Clemens J. Accelerating the introduction of new vaccines in developing countries. Aga Khan University Conference on New Vaccines for Pakistan. Karachi, Pakistan, August, 2003.

Clemens J. Innovative methods for defining endpoints in vaccine trials. WHO Consultation on ETEC Vaccines. Annecy, France, September, 2003.

Clemens J. Clinical evaluation of new vaccines. WHO Course on

Biotechnology and Immunology. Marcel Merieux Foundation, Annecy, France, October, 2003.

Clemens J. The International Vaccine Institute: present activities and future plans. Joint Working Group of the India-US Vaccine Action Program. New Delhi, India, November, 2003.

Clemens J. The DOMI Program. Asian Scientific Conference on Diarrheal Diseases and Nutrition. Dhaka, Bangladesh, December, 2003.

Clemens J. Thinking downstream in vaccine development. Keystone Symposium, Keystone, CO, January, 2004.

Clemens J. Clinical evaluation of new vaccines. IVI International Course on Vaccinology, Seoul, Korea, March, 2004.

Clemens J. Translational research to accelerate vaccine introduction into developing countries. The DOMI Programme as a case study. Third International Conference on Vaccines for Enteric Diseases. Half Moon Bay, Jamaica, April, 2004.

Clemens J. Multidisciplinary research to provide evidence for vaccine policy in developing countries. Vanderbilt University School of Medicine, Nashville, TN, April, 2004.

Clemens J. The DOMI Programme: a model for multi-country, multidisciplinary research on vaccines for developing countries. One World Health Meeting on Vaccines for Enteric Diseases, Airlie House, Virginia, April, 2004.

Clemens J. The IVI: status report and future plans. Pacific Forum on Tropical Health Innovation, Cairns, Australia, July, 2004.

Clemens J. The DOMI Program: generating evidence for policy on vaccines against cholera, typhoid, and shigellosis. BioFarma Anniversary Symposium, Bandung, Indonesia, August, 2004.

Clemens J. Considerations for Phase III trials of new generation vaccines against *Shigella*. WHO Consultation on New Vaccines for *Shigella*. Geneva, Switzerland, September, 2004.

Clemens J. The role of IVI in providing technical assistance and in assisting with technology transfer to developing country producers. Annual Meeting of the Developing Country Producers Network. Cairo, Egypt, September, 2004.

Clemens J. Recent studies on protection conferred by killed, oral vaccines against cholera. University of Goteborg, Goteborg, Sweden, September, 2004.

Clemens J. Lessons learned from Phase 3 trials of cholera vaccines. USNIH-NIAID HIVTN Meeting, Seattle, October, 2004.

Clemens J. Herd Immunity Conferred by Killed Oral Cholera Vaccines in Bangladesh. 39th Joint Conference of the U.S.-Japan Cooperative Medical Science Program on Cholera and other Bacterial Enteric Infections, Kyoto, Japan, December, 2004.

Clemens J. The DOMI Program: status and prospects. International Meeting on the Diseases of the Most Impoverished (DOMI) Program. Hanoi, Vietnam, January, 2005.

Clemens J. Landscape analysis of cholera vaccines. Enteric Vaccines Consultation. Bill and Melinda Gates Foundation. Seattle, March, 2005.

Clemens J. Links between the environment and vaccines. UNESCAP Meeting. Seoul, Korea, March, 2005.

Clemens J. Enteric vaccines. ISAAR Conference. Seoul, Korea, May, 2005.

Clemens J. The IVI: a status report. Bill and Melinda Gates Foundation. Seattle, June, 2005.

Clemens J. Translational research for diseases of the most impoverished. Vaccines for Diseases of the Most Impoverished. Berlin, Germany, September, 2005.

Clemens J. Innovative approaches to financing the introduction of typhoid vaccines into programs for the poor. International Conference on Typhoid Fever. Guilin, China, November, 2005.

Clemens J. Vaccine research and development and waterborne diseases: cholera as a model. Scientific Conference on Asia Pacific Environmental Health. Bangkok, Thailand, December, 2005.

Clemens J. Defining the role of vaccines in reducing typhoid disease. American Society for Tropical Medicine and Hygiene Annual Meeting. Washington, DC, December, 2005.

Clemens J. What can be done to make vaccines affordably available to developing countries? Merck International Advisory Committee on Rotavirus Vaccine. Miami, January, 2006.

Clemens J. Bioethical considerations in evaluating vaccines in the context of complex emergencies. Global Forum for Bioethics in Research. Aga Khan University. Karachi, Pakistan, February, 2006.

Clemens J. New approaches to evaluation of vaccine herd protection. 6th Annual National Foundation on Infectious Diseases Meeting on Vaccines. Baltimore, May, 2006.

Clemens J. Translational research to accelerate new vaccine introduction. Seventh Advanced Course on Vaccinology. Annecy, France, May, 2006.

Clemens J. Evidence-based introduction of new vaccines into developing countries: the case of typhoid vaccines. Seventh Advanced Course on Vaccinology. Annecy, France, May, 2006.

Clemens J. New approaches to evaluation of vaccine herd protection. 6th Annual IVI Course on Vaccinology. Seoul, Korea, May, 2006.

Clemens J. Field trials of typhoid vaccines in Asia. Meeting of the WHO Global Network of National Regulatory Authorities in Developing Countries. Seoul, Korea, May, 2006.

Clemens J. Future challenges for the evaluation of enteric vaccines. Inauguration Ceremony for the ICMR Center for Enteric Diseases in Kolkata. Kolkata, India, July, 2006.

Clemens J. Future challenges for the evaluation of enteric vaccines. Beazeley Oration. Australian Society for Microbiology. Cairns, Australia, July, 2006.

Clemens J. Old wine in a new bottle: evaluation and introduction of killed oral cholera vaccines in Asia. Asian Symposium on Science and Technology. Tokyo, Japan, September, 2006.

Clemens J. Practical considerations for the introduction of new vaccines into developing countries. Wellcome Trust Meeting on Formulating New Directions for Vaccines in Developing Countries. Cambridge, UK, November, 2006.

Clemens J. Future Challenges to the Evaluation of Enteric Vaccines. 42nd Annual U.S.-Japan Cooperative Program Meeting on Cholera and Related Diarrheas. Kifu, Japan, December, 2006.

Clemens J. The Diseases of the Most Impoverished Program: Accomplishments and prospects. Keynote Address. WHO Initiative for Vaccine Research Global Vaccine Research Forum. Bangkok, Thailand, December, 2006.

Clemens J. Downstream Research on Vaccines for Developing Countries. UK Medical Research Council Consultation on Priorities on Vaccine Research. London, UK, January, 2007

Clemens J. The IVI: A Global Resource for New Vaccines for Developing Countries. UK-Korea International Workshop on Vaccines for Influenza. Seoul, Korea, March, 2007

Clemens J. Future Challenges for the Clinical Evaluation of Vaccines against Enteric Diseases. Keynote Address. Vaccines for Enteric Diseases Meeting. Lisbon, Portugal, April, 2007.

Clemens J. Phase 1-3 Trials. Annual Vaccinology Course for the Asia-Pacific. Seoul, Korea, May, 2007.

Clemens J. Assessment of Herd Protection. Annual Vaccinology

Course for the Asia-Pacific. Seoul, Korea, May, 2007.

Clemens J. New Approaches to the Assessment of Vaccine Herd Protection. Eighth Advanced Course on Vaccinology. Annecy, France, May, 2007.

Clemens J. New Approaches to the Assessment of Vaccine Herd Protection. Keynote Address. World Vaccine Congress, Singapore, June, 2007.

Clemens J. Avian influenza. United Nations OCHA Annual Meeting, Seoul, Korea, June, 2007.

Clemens J. The Need for Evidence-Based Decisions for Introducing New Vaccines in Developing Countries. Inaugural Symposium, Novartis Institute for Vaccines. Sienna, Italy, July, 2007.

Clemens J. Burden of disease of typhoid fever and incidence rate in Asia. WHO Typhoid Vaccine Policy Meeting. Geneva, Switzerland, August, 2007.

Clemens J. New Approaches to the Evaluation of Vaccine Herd Protection. Keystone Conference on the Challenges of New Vaccines for Developing Countries. Capetown, South Africa, October, 2007.

Clemens J. Future challenges for the Clinical Evaluation of Vaccines against Enteric Infections. Wellcome Trust Asia-Pacific Workshop. Beijing, China, October, 2007.

Clemens J. The Need for Translational Research to Generate the Evidence for Rational and Efficient Introduction of New vaccines—the Success Story of the IVI in Asia. Global Forum for Health Research. Beijing, China, November, 2007

Clemens J. Evaluating Vaccine Herd Protection Before Vaccine Licensure. Keynote lecture. US-Japan Cooperative Medical Sciences Program on Cholera and Related Bacterial Diarrheas. Austin, TX, December, 2007.

Clemens J. Enteric Vaccines. Vaccine Development in the 21st Century. Stockholm, Sweden, January, 2008

Clemens J. Bringing New and Underused Vaccines to the Poor. GLOBVAC International Symposium Building Partnerships in Vaccination Research. Oslo, Norway, March, 2008.

Clemens J. New Approaches to the Evaluation of Vaccine Herd Protection. International Conference on Emerging Infectious Diseases. Atlanta, March, 2008.

Clemens J. The International Vaccine Institute—the First Ten Years. Vaccines for the 21st Century. IVI 10th Anniversary International Symposium. Seoul, Korea, April, 2008.

Clemens J. New Approaches to the Evaluation of Vaccine Herd Protection. Vaccine and Immunotherapy Technologies. Sir Mark Oliphant Conference. Canberra, Australia, April, 2008.

Clemens J. New Vaccine Evaluation: Phase I to III. The Eighth International Advanced Course on Vaccinology in Asia Pacific Regions. Seoul, Korea, May, 2008.

Clemens J. Phase 3B studies: Demonstration Projects. The Eighth International Advanced Course on Vaccinology in Asia Pacific Regions. Seoul, Korea, May, 2008.

Clemens J. Herd Immunity Conferred by Killed Oral Cholera Vaccine in Bangladesh: A re-analysis. The Eighth International Advanced Course on Vaccinology in Asia Pacific Regions. Seoul, Korea, May, 2008.

Clemens J. Overview on NICED-IVI Field Activities. US-Japan Cooperative Medical Science Program 1st Training Mission in Cholera: Collaborative Research & Case Management. Kolkata, India, September, 2008.

Clemens J. Hot Topics in Translational Research. US-Japan Cooperative Medical Science Program 1st Training Mission in Cholera: Collaborative Research & Case Management. Kolkata, India, September, 2008.

Clemens J. Plenary lecture. New Approaches to Measurement of Vaccine Herd Protection. XVIIth International Congress for Tropical Medicine and Malaria: from Bench to Field. Jeju, Korea, October, 2008.

Clemens J. Keynote Lecture. Typhoid Vaccines as Routine Public Health Tools for Developing Countries: An Idea Whose Time has Come. XVIIth International Congress for Tropical Medicine and Malaria: from Bench to Field. Jeju, Korea, October, 2008.

Clemens J. Herd Protection by Bacterial Enteric Vaccines : A New Dimension. Controlling Infectious Diseases : An Agenda for the 21st century. Institut Pasteur. Paris, France, November, 2008.

Clemens J. A Phase IV Cluster-Randomized Effectiveness Trial of Vi Polysaccharide Vaccine against Typhoid Fever in Kolkata, India. US- Japan Cooperative Medical Sciences Program on Cholera and Related Bacterial Diarrheas. Fukuoka, Japan, November, 2008.

Clemens J. Synergies Between Vaccination and Environmental Interventions in the Control of Cholera. Symposium on Infectious Diseases and the Environment. Chulungkorn Center, Bangkok, Thailand. April, 2009.

Clemens J. Effectiveness of Inactivated Whole Cell-based Oral Cholera Vaccines in Kolkata, India. Symposium on

Integrating Vaccination into Global Cholera Control Efforts. Foundation Merieux. Annecy, France. April, 2009.

Clemens J. Vaccine Herd Protection: New Methods for Pre-Licensure Vaccine Trials. Sanger Center. Cambridge, UK, May, 2009.

Clemens J. Vaccine Evaluation: Phases 1-3. 9th Annual Course on Vaccinology for the Asia-Pacific Regions. Seoul, Korea, May, 2009.

Clemens J. The Role of Vaccine Demonstration Projects in Introducing Vaccines into Developing Countries. 9th Annual Course on Vaccinology for the Asia-Pacific Regions. Seoul, Korea, May, 2009.

Clemens J. Assessment of Vaccine Herd Protective Effects. 9th Annual Course on Vaccinology for the Asia - Pacific Regions. Seoul, Korea, May, 2009.

Clemens J. Assessment of Vaccine Herd Protective Effects. Course on Vaccines and Vaccinology. Hanoi, Vietnam, August, 2009.

Clemens J. Selection of Outcomes in Vaccine Effectiveness Trials. International Meeting on Assessing Vaccine Effectiveness. Merieux Foundation, Annecy, France, October, 2009.

Clemens J. Development and Licensure of a New Killed Oral Cholera Vaccine. Vaccines for Enteric Diseases Meeting. Malaga, Spain, September, 2009.

Clemens J. Progress in Typhoid Vaccines. GAVI Partners Meeting. Hanoi, Vietnam, November, 2009.

Clemens J. Progress in New Generation Cholera Vaccines. Symposium on New Vaccines. Institute for Health, Luis III. Madrid, Spain, December, 2009.

Clemens J. Summary of Workshop on the Assessment of Vaccine Herd Effects in Vaccine Effectiveness Evaluations. WHO Initiative for Vaccine Research Global Vaccine Research Forum. Bamako, Mali, December, 2009.

Clemens J. Herd Immunity. Eleventh Advanced Course on Vaccinology, Annecy, France, May, 2010.

Clemens J. Herd Immunity Conferred by Vaccines. The Tenth International Advanced Course on Vaccinology in Asia Pacific Region, Seoul, Korea, May, 2010.

Clemens J. Immunization against Cholera with Killed Oral Vaccines. Meeting on Oral Vaccination Strategies for Developing Countries. Goa, India, August, 2010.

Clemens J. Vaccines against Cholera. Bio Korea Annual Meeting,

2010. Seoul, Korea, September, 2010

Clemens J. Role of Vaccines in Addressing the Problem of Antibiotic Resistance. Global Meeting on the Need for Effective Antibiotics, Uppsala, Sweden, September, 2010

Clemens J. Killed Oral Cholera Vaccines. The Second International Vaccines Symposium Vaccine from Research to Product Launch. Zhunan, Taiwan, October, 2010.

Clemens J. Regional Development of Vaccines: the Case of Cholera Vaccines. The Eighth Asia Pacific Travel Health Conference. Nara, Japan, October, 2010.

Clemens J. Experimental Studies: Cluster Randomized Trials. Conference on Herd Immunity Protection. Merieux Foundation, Annecy, France, October, 2010.

Clemens J. Accomplishments of the International Vaccine Institute. 6th Jeju Forum for Peace and Prosperity. Cheju, Korea. May, 2011.
Clemens J. The International Vaccine Institute and the Decade of Vaccines. 2010 Seoul Give Forum (Convened with the G20 meeting), Seoul, Korea, November, 2010.

Clemens J. History and Development of Cholera Vaccines. Conference on Vaccines to Save Our Century. Tokyo, Japan, November, 2010.

Clemens J. Old Wine in a New Bottle: Killed Oral Cholera Vaccines. United States-Japan Cooperative Medical Science Program 45th Annual Joint Panel Meeting on Cholera & Other Bacterial Enteric Infections. Kyoto, Japan, December, 2010.

Clemens J. Killed Oral Cholera Vaccines. Osong Meeting on Public Health and Research Perspectives, Convened by Korea Center for Disease Control and Prevention, Busan, Korea, December, 2010.

Clemens J. The IVI: Accomplishments and Prospects. USFDA-CBER. Bethesda, March, 2011.

Clemens J. Development, Licensure and Introduction of Killed Oral Cholera Vaccines. London School of Hygiene and Tropical Medicine. London. April, 2011.

Clemens J. Accomplishments of the International Vaccine Institute. 6th Jeju Forum for Peace and Prosperity. Cheju, Korea. May, 2011.

Clemens J. Herd Immunity. Twelfth Advanced Course on Vaccinology, Annecy, France. May, 2011.

Clemens J. Phase 1-3 Trials of Vaccines. The Eleventh International Advanced Course on Vaccinology in the Asia-Pacific Region. Seoul. May, 2011.

Clemens J. Phase 4 Demonstration Projects of Vaccines. The Eleventh International Advanced Course on Vaccinology in the Asia-Pacific Region. Seoul, May, 2011.

Clemens J. The Role of the IVI in Moving Forward the Global Vaccine Agenda. 3rd Annual Thailand Course on Vaccinology. Bangkok, July, 2011.

Clemens J. Assessment of vaccine herd protection. University of Florida School of Medicine, Gainesville, August, 2011.

Clemens J. The clinical and public health research agenda for vaccines against enteric diseases. Vaccines for Enteric Diseases Meeting. Cannes, France, September, 2011.

Clemens J. The development and introduction of new vaccines for developing countries: the bench to field paradigm. Keynote Lecture. Symposium on Vaccines for the 21st Century: Roadblocks and Opportunities. World Vaccine Congress. Berlin, October, 2011.

Clemens J. The public health research agenda for enteric vaccines. Institut Pasteur, Paris, March, 2012

Clemens J. Killed oral cholera vaccines: from concept to public health reality. UCLA School of Public Health, March, 2012

Clemens J. Development and deployment of killed oral cholera vaccine: The translational paradigm. Foundation Day, Translational Health Science and Technology Institute, Delhi, July. 2012