

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 Lumbok, 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.

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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 vaccines. 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