

8/20/2020

Curriculum vitae

PROFESSOR EMMANUEL OTOPA DANQUAH ADDO-YOBO

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SCHOOL OF MEDICAL SCIENCES, COLLEGE OF HEALTH SCIENCES, KNUST, KUMASI

Professor E.O.D. ADDO-YOBO MD FGCP MWACP MSc DTCH, Dept of Child Health, CHS, SMS-KNUST, Kumasi, Ghana

Page 0

CURRICULUM VITAE

SURNAME: ADDO-YOBO
OTHER NAMES: EMMANUEL OTOPA DANQUAH
TITLE: PROFESSOR

1. CONTACT INFORMATION

Department of Child Health, School of Medical Sciences,
Kwame Nkrumah University of Science and Technology/
Komfo Anokye Teaching Hospital, P. O. Box 1934, Kumasi, Ghana, West Africa

Tel: Work: (+233) (0)32 203 6751;
Mobile: (+233) (0)20 630 0555; (+233) (0)24 464 2464
Email: codaddyobo.sms@knust.edu.gh; ioday44@yahoo.co.uk.

2. PERSONAL INFORMATION

Date & Place of Birth of birth: 10th October, 1959; Kumasi, Ghana;
Sex: Male
Nationality: Ghanaian

International Languages:
Spoken and Written: English (Excellent), French (Fair)

Marital Status: Married (to Mrs Hyda Okyerewa Addo-Yobo) with three (3) children
Hobbies: Information Technology, Electronics, Music, Badmington, Automechanics,

Next of Kin: Mrs Hylde Okyerewa Addo-Yobo

3. CURRENT POST

Professor

Department of Child Health, School of Medical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Honorary Consultant Paediatrician

Child Health Directorate, Komfo Anokye Teaching Hospital, Kumasi, Ghana

4. ACADEMIC QUALIFICATIONS WITH DATES AND AWARDED INSTITUTIONS

- Fellow of Ghana College of Physicians (FGCP)(Paed) – 2005 (Foundation Fellow)
Ghana College of Physicians and Surgeons
- MD (*Doctor of Medicine*) – 2000 (Postgraduate); (Thesis on Asthma in Ghanaian school children)
University of Manchester, UK
- Membership of the West African College of Physicians (MWACP) (Paed) – 1998 (Postgraduate); West African Postgraduate Medical College, Ibadan, Nigeria
- M.Sc. (Mother and Child Health) - 1990 (Postgraduate);
Institute of Child Health, University of London. UK.
- Diploma in Tropical Child Health (DTCH) - 1989 (Postgraduate); Liverpool School of Tropical Medicine, University of Liverpool, UK.

- M.B. Ch.B. – 1984
School of Medical Sciences, University of Science and Technology, Kumasi, Ghana
- B.Sc. Human Biology - 1981
School of Medical Sciences, University of Science and Technology, Kumasi, Ghana

5. INSTITUTIONS ATTENDED WITH DATES

- Mfantshipim School (Secondary):
1971 – 1978
- Liverpool School of Tropical Medicine, University of Liverpool, United Kingdom:
1988 -1989
- Liverpool School of Tropical Medicine, University of Liverpool, United Kingdom:
1988 -1989
- Institute of Child Health, Great Ormond Street, University of London:
1989 – 1990
- University of Manchester, United Kingdom:
1997 – 2000

6. MEDICAL LICENSURE

GHANA MEDICAL and DENTAL COUNCIL:
1984 till date

7. MEMBERSHIP OF PROFESSIONAL BODIES

- Ghana Medical Association: 1984 to date
- Paediatric Association of Ghana: 1996 to date
- West African College of Physicians: 1998 to date
- University Teachers Association of Ghana: 1999 to date
- Ghana College of Physicians and Surgeons: 2003 till date
(Foundation Fellow)

8. WORK EXPERIENCE

8.1 UNIVERSITY TEACHING EXPERIENCE:

- **Full Professor, Department of Child Health, School of Medicine and Dentistry**
College of Health Sciences, Kwame Nkrumah University of Science and Technology (KNUST);
2017 – date
- **Associate Professor Department of Child Health, School of Medical Sciences**
College of Health Sciences, Kwame Nkrumah University of Science and Technology (KNUST);
2011 – 2017
- **Senior Lecturer, Department of Child Health, School of Medical Sciences**
College of Health Sciences, Kwame Nkrumah University of Science and Technology (KNUST);
2004 – 2011

Functions:

Teaching of Undergraduates – MB CHB Part 1B Programme – Child Health

- Clinical Teaching on Child Health Course to 5th Year Medical students, MB ChB Part 1B Programme, School of Medical Sciences: Rendered clinical lectures and Bedside teaching from 1999 to date in areas of Immunisation Practice, Respiratory Disorders, Diarrhoeal Diseases, Neuropathies and Myopathies in Childhood.

- Part-time teaching of Medical Students at the University of Development Studies, Tamale, on the Child Health Course - 2010

Teaching of Postgraduates:

Teaching of Residents (Trainee Specialists) in Child Health /Paediatrics:

Komfo Anokye Teaching Hospital /West Africa College of Physicians and Surgeons Programmes: 2000 – date

Komfo Anokye Teaching Hospital/Ghana College of Physicians and Surgeons programme: 2004 - date

Activities: Clinical Lectures, Seminars and Bedside teaching in general paediatrics
Areas of Special Interest: Paediatric Respiratory function and Disorders including Childhood Asthma, Diarrhoeal Diseases in Children, Acute Flaccid Paralysis, Vaccines and Immunisation Practice in Children.

Masters in Public Health Course – Population and Reproductive Health,

Department of Community Health, School of Medical Sciences, KNUST, Kumasi:
Teaching on Child Survival and Development from 2007 to 2017

Medical Research

(Please see section 10 & 12 below)

Lecturer, Department of Child Health, School of Medical Sciences

College of Health Sciences, Kwame Nkrumah University of Science and Technology (KNUST);
1999-2004

Functions: Rendering lectures and bedside teaching to medical students and later Residents in general paediatrics and child health, and conducting research

8.2 ADMINISTRATION

- **Head, Department of Child Health,** School of Medical Sciences, Kwame Nkrumah University of Sciences and Technology, Kumasi (2002-2004; 2006- 2011; 2014 - 2018)

Functions: Planning, developing, implementing and monitoring teaching, training and certification activities for undergraduate medical students and postgraduate doctors in Child Health as well as staff development activities.

AND

Head, Directorate of Child Health, Komfo Anokye Teaching Hospital, Kumasi, Ghana (2002 - 2004; 2006 -2011; 2014 - 2018)

Functions: Planning (including budgeting), Developing, Co-ordinating and monitoring Child Health clinical care activities (including individual and departmental performance appraisals) of the Directorate with regard to Clinical Service delivery, Teaching and Research, in line with the mandate

and vision of the Komfo Anokye Teaching Hospital, and to make the clinical care setting most conducive for undergraduate and postgraduate training of doctors, nurses and other paramedical staff in the directorate.

- **Head, Quality Assurance and Patient Safety Unit**, Komfo Anokye Teaching Hospital, Kumasi (January 2012 to 2018).
Functions: Monitoring of clinical standards and related research, review of incidents and accidents, and making recommendations for policy revisions and staff training updates as required.
- **Chairman, University Health Services Management Committee**
Kwame Nkrumah University of Science and Technology, Kumasi
Functions: As chairman of University Health service management board.

8.3 OTHER TEACHING EXPERIENCE

- Resource Person for Annual Revision Courses, Faculty of Child Health and Paediatrics, Ghana College of Physicians: 2006 till date
- Resource Person/Key Facilitator, Regional Vaccinology Course for Anglophone Countries, WHO /AFRO: 2007-2013
Roles: General Course Facilitation,
Key Presenter on teaching Vaccinology in Pre-Service Institutions,
Key Presenter on Pneumococcal Vaccines
- Project Supervisor and Assessor, Diploma in Project Design and Management Course, KATH/School of Medical Sciences/Liverpool School of Tropical Medicine collaboration:

8.4 CLINICAL PRACTICE:

- **Honorary Consultant Paediatrician**
Komfo Anokye Teaching Hospital (KATH), Kumasi, Ghana (2010- date).
- **Senior Specialist, Child Health**
Komfo Anokye Teaching Hospital (KATH), Kumasi, Ghana (2003- 2010).

Functions: Specialist clinical care of Children, Training of Residents in Child Health, Research in Child Health
- **Doctor -in -charge, Paediatric Asthma Clinic**, Komfo Anokye Teaching Hospital, Kumasi, Ghana. (1993 - 2020) (Founding Physician)
Function: Emergency and Outpatient Clinical care of children under 18 years with asthma and allergies and related disorders

8.5 CONSULTANCIES – RELATING TO IMMUNIZATION (Technical Support on EPI to Countries)

- WHO Short-term Consultant to provide Technical support to the Ministry of Health, Uganda in conducting EPI training Needs Assessments; Kampala, Uganda – 21st Nov – 16th Dec 2016.
- WHO short-term Consultant to coordinate the workshop to review & harmonize the content of English Version of the Mid-Level Management (MLM) Modules and EPI Prototypes Curricula for Medical, Nursing & Midwifery Training schools in the African Region. Brazzaville, Congo.

April 2015

- Consultant for Joint WHO and UNICEF Training Needs Assessment for staff working on Immunization in Nigeria, Ethiopia and Uganda.
August – December 2013
- World Health Organisation Short Term Consultant to Swaziland: Providing Technical Support to review and update EPI curricula for Health training institutions.
July 2013
- World Health Organisation Short Term Consultant:
Evaluation of Status of Introduction of content curricula on Immunisation into Pre-Service Health Training Institutions in Uganda
18th – 24th September 2011
- World Health Organisation Short Term Consultant:
Evaluation of Status of Introduction of content curricula on Immunisation into Pre-Service Health Training Institutions in Kenya. 26th September – 1st October 2011
- World Health Organisation Short Term Consultant: Mission to Support the Establishment of Sentinel Surveillance for Rotavirus and Prevention of Bacterial Meningitis in Sierra Leone
21st – 25th June 2010
- World Health Organisation Short Term Consultant on Training Needs Assessment on Expanded Programme on Immunisation, Ministry of Health, Mozambique.
May-June 2009
- World Health Organisation Short Term Consultant on Training Needs Assessment on Expanded Programme on Immunisation, Ministry of Health, Liberia.
May-June 2006

8.6 MEMBERSHIP OF BOARDS/ COMMITTEES/WORKING GROUPS

Within the University (KNUST)

- KNUST Representative to the Senate, Presbyterian University College Ghana. 2017 - 2020
- Member, School of Dentistry Board, College of Health Sciences, KNUST: 2013 - 2019
- Chairman, University Health Services Management Committee, KNUST: March 2014
- Member, University Welfare Services Board, KNUST. March 2011
- Member, Committee to Explore the expansion of clinical training sites, School of Medical Sciences, College of Health Sciences- 2010
- Member of the Teaching Site Implementation Committee, College of Health Sciences, KNUST: 2011 - date
- Member of School Board, School of Medical Sciences, CHS-KNUST: 2002 till date
- Cognate Member, School of Dentistry Board, College of Health Sciences, KNUST: Representative from School of Medical Sciences: 2010 - 2014
- Member of Academic Board, KNUST: 2002 -date.
- Cognate Member, College of Engineering Board, KNUST: Representative from School of Medical Sciences: 2008-9
- Curriculum development committee – Sports Science, School of Medical Sciences
- Committee on the Proposed Increase in Intake of Students into the BSc Human Biology Programme, School of Medical Sciences, KNUST.
May 2004

Outside the University (KNUST)

National

- Member, Technical Advisory Committee on Clinical Trials, Food and Drugs Authority (FDA), Ghana (January 2021 on)
- Member, Accreditation Team for Health Training Institution, Ghana Medical and Dental Council
- Member, Accreditation Team for Health Training Institution, National Accreditation Board, Ghana.
- National Poliomyelitis Expert Committee, Ghana; Chairman, 2017 – date
- National Poliomyelitis Expert Committee, Ghana; Member, 2002 – 2016
- Chair, Board of Faculty of Child Health and Paediatrics, Ghana College of Physicians and Surgeons December 2013 (effective Jan 2014)
- Board of the Faculty of Child Health and Paediatrics, Ghana College of Physicians and Surgeons, Member; 2006- till date
- Education and Research Committee, Ghana College of Physicians and Surgeons: Member: 2006- till date
- Resource person for Update and Revision Courses, Faculty of Child Health, Ghana College of Physicians 2006 – date
- Secretary, Faculty of Medicine, Ghana College of Physicians and Surgeons; (2005- 2112)
- Team for accreditation of Regional and District hospitals in Northern sector, Ghana, for residency training in Child Health, Ghana College of Physicians and Surgeons. Member, 2005.
- Team for accreditation of Regional and District hospitals in Northern sector, Ghana, for training of house officers in Child Health: Medical and Dental Council, Ghana. Member, 2005
- Vice President, Paediatric Society of Ghana. 2005-7
- Steering Committee on Better Medicines Project, June 2010 –
- Committee for Strategic review of Child Health Policy, Ghana Health Service/MOH, 2008
- School Health Policy Review Committee, Reproductive and Child Health, Ghana Health Service; Member, (2004-2009)
- Integrated Management of Childhood Illness (IMCI) Technical Content Review Working Group, Member, December 2007
- Specialists Group for the Review of Medicines List for National Health Insurance Council. 2007, 2016-2018
- Working Groups for the development of Strategic Framework for Non Communicable Disease, Ghana Health Service, Ghana. Member; 2006
- Committee to Review Material on Job Aids for Newborn Care for use by doctors, midwives, nurses and medical assistants. Ghana Health Service/Focus Region Health Project: Decembre 2010 – March 2011
- Concensus Meeting Group - Revised Integrated Management of Childhood Illness (IMCI) Guidelines including Management of HIV/AIDS and Newborn Care, Accra, Ghana 14th November 2007
- Review of National Health Insurance Scheme Medicines List: Member of Review Panel; January 2007
- Ghana Under-5 Child Health Policy Workshop, Accra, Dec 10-14, 2007: Participant.

International

- SubSaharan Respiratory Advisory Board. (Online Meeting - July 2021)
- Regional Vaccinology Courses for Anglophone Countries, World Health Organization/Network for Education and Support in Immunisation (NESI): 2008 – date: General Resource Person and Key Facilitator on pneumococcal and meningococcal vaccines.
- Medical and Chemical Technical Options Committee (MCTOC) of the United Nation Environmental Programme (UNEP). Member; 2005-date
Representing the interest of Article 5 Countries (Developing Countries) in the phase-out of use of CFC in medical applications (asthma medications) in the implementation of the Montreal Protocol.
- West African Rotavirus Advisory Board (WARAB), Member 2008 – date

Local

- Chairman, Committee for the Implementation of Hospital Administrative Management Systems (HAMS) at Komfo Anokye Teaching Hospital, Kumasi. January 2013 - 2017
- Komfo Anokye Teaching Hospital Research Policy Guidelines and Procedures development Committee. Member: 2009-10
- Referral Policy Development Committee, Komfo Anokye Teaching Hospital. 2004-2006
- Orientation of House Officers, Komfo Anokye Teaching Hospital: Resource person 2002- 2018
- Assessment Interview Panel for the promotion of Doctors, Nurses other professional staff at Komfo Anokye Teaching Hospital. Member. 2003- 2018
- Disciplinary Committee, Komfo Anokye Teaching Hospital: Member, 2002 – 2016

Extra-curricula

- Constitution Review Committee, St George's Church, Adum, Kumasi, 2010: Member
- Church Organist and Member of the Choir, St Georges Church, Adum, Kumasi – 2010
- Member of Komfo Anokye Teaching Hospital Staff Wards Committee: Member– 2009, 2010: Representative for Doctors
- Member of the Editorial Committee, Ghana Postgraduate Medical Journal – July 2009
- Editor-in-chief, Komfo Anokye News Bulletin. A quarterly bulletin for the Komfo Anokye Teaching Hospital. 2008-2016 – Member of the Editorial Committee
- Assistant Editor-in-chief, Komfo Anokye News Bulletin. A quarterly bulletin for the Komfo Anokye Teaching Hospital. 2004-7: Member of the Editorial Committee
- Editorial Board, Pan African Medical Journal: Member, 2007
- Reviewer for Ghana Medical Journal - for articles on asthma and paediatric respiratory diseases 2004

8.7 OTHER WORK EXPERIENCE

Educational Activities

- External Examiner for the Department of Paediatrics and Child Health Sciences, Makerere University, Uganda: June 2017
- Chief Examiner/External Examiner, Maiden Part One Examinations in Paediatrics, University for Development Studies, School of Medicine and Health Sciences, Tamale. 26 April – 6th May 2011
Part-time Lecturer, School of Medical and Health Sciences, University of Development Studies, Tamale: July 2010
- Examiner, Diploma in Project Design and Management Course: A KNUST –KATH- Liverpool School of Tropical Medicine Collaboration 2009-2010
- Internal Examiner, Membership Examinations in Child Health, Faculty of Child Health and Paediatrics, Ghana College of Physicians -2008 - date
- Course Supervisor, Diploma in Project Design and Management Course: A KNUST –KATH- Liverpool School of Tropical Medicine Collaboration
- External Examiner for PhD Thesis on Risk Factors for Asthma in Syria, Faculty of Medicine, University of Manchester, United Kingdom: August 2006.

Health Service Delivery and Medical Education

- Specialist and subspecialist Paediatric clinical service delivery to Komfo Anokye Teaching Hospital as Senior Specialist Paediatrician.
- Co-ordinator, Post-graduate Training Programme, Department of Child Health, Komfo Anokye Teaching Hospital, Kumasi, Ghana. 2005-2009

9. PAST WORK EXPERIENCE

- Lecturer, Department of Child Health, School of Medical Sciences: 1999 – 2004
Teaching of Undergraduates – MB CHB Part 1B Programme; Teaching of Postgraduates – West African College of Physicians, Ghana College of Physicians.
Areas Taught: General Paediatrics, Paediatric Respiratory Disorders, Diarrhoeal Diseases in Children, Acute Flaccid Paralysis, Childhood Immunisations, Vital Statistics
Teaching involved lectures and Clinical and Bedside teaching, Seminars
- Specialist Paediatrician, Department of Child Health, Komfo Anokye Teaching Hospital, Kumasi: 1998 – 1999
- Honorary Lecturer, Department of Medicine, University of Manchester Medical School - 1999-2000.
- Clinical Advisor to the Public Health Unit, Komfo Anokye Teaching Hospital, Kumasi. 2002
- Research Paediatrician, Kintampo Health Research Centre (KHRC), Ministry of Health, Ghana (1997 - 2004)
- Acute Flaccid Paralysis Surveillance Co-ordinator
Komfo Anokye Teaching Hospital/Ghana Health Service, Ashanti Region, Kumasi, Ghana 1997 – 2001
- Principal Medical Officer, Department of Child Health, Komfo Anokye Teaching Hospital, Kumasi: 1996 – 1998.
- Course Director, Trainer of Trainers: WHO Control of Diarrhoeal Diseases Programme in Ghana./Ministry of Health, Ghana 1993-1996
- Senior Medical Officer, Department of Child Health, Komfo Anokye Teaching Hospital, Kumasi: 1992 – 1996. Activities: Clinical and Community Paediatrics, Komfo Anokye Teaching Hospital (KATH), Kumasi, Ghana:
- Medical Officer Departments of Obstetrics & Gynaecology, and Child Health, Komfo Anokye Teaching Hospital, Kumasi: 1985-1988
- House Officer, Komfo Anokye Teaching Hospital, Kumasi: 1984-1985

10. RECENT RESEARCH ACTIVITIES

- a) **Achieving Control of Asthma in African Children (ACACIA) – Ghana Study**
NHIR funded research in collaboration with Global Health Research Group on improving asthma outcomes in African children at Queen Mary University of London. 2018- 2021: Role - PI
- b) International Multidisciplinary Programme to Address TB and Lung Health in Africa (IMPALA)
Project:: NIHR-funded LSTM Global Health research unit collaboration for capacity-building in multidisciplinary research in lung health and TB in Ghana/Africa. Role – Project Lead - Ghana.
- c) **Triclosan Study:** study to determine the relationship between exposure to triclosan in home products and asthma severity and control in Ghanaian and Nigerian Children:
Lung Health In Africa along the Life Course (LuLi) Project: MRC funded in collaboration with Liverpool School of Tropical Medicine 2018 – 2021: Role – PI (Ghana)

c) Childhood Vaccine Preventable Disease Surveillance Activities

Collaboration with Ministry of Health/Ghana Health Service/KATH with institutional support funding from WHO.

- **Rotavirus Surveillance Project (2008 to date)**
A study to collect data to describe the burden of rotavirus infection in Kumasi, Ghana, and to collect information on the prevalence of circulating rotavirus strains to help assess the impact of rotavirus vaccines after introduction in Ghana. WHO/Ministry of Health Ghana co-sponsored
Personal Role: Principal Investigator
- **Prevention of Bacterial Meningitis/Pneumococcal Disease Surveillance (2016 - date)**
A surveillance activity collect data to periodically describe the burden of circulating strains of *Haemophilus influenzae* type b (Hib) and *Streptococcus pneumoniae* (SPn) in Kumasi, Ghana.
WHO/Ministry of Health Ghana co-sponsored
Personal Role: Co-investigator
- **Enteric Fever Surveillance Pilot (2016 - date)**
A surveillance activity collect data to periodically describe the burden of Enteric Fever and circulating types of *Salmonella typhi* in Kumasi, Ghana, to help assess the relevance of routine vaccination in Ghana. WHO/Ministry of Health Ghana co-sponsored
Personal Role: Principal Investigator
- **Congenital Rubella Surveillance Project (2003-6, 2015-date)**
A study to describe the early features of congenital rubella syndrome and to develop predictors for early recognition of the disease in the public health setting. WHO/Ministry of Health, Expanded Programme on Immunisation, Ghana co-sponsored.
Personal Role: Principal Investigator

d) Asthma and Allergy among Ghanaian children (1993-2007)

Collaboration with Komfo Anokye Teaching Hospital, Kintampo Health Research centre, North West Lung Centre, Manchester, United Kingdom). Funding by North West Lung Centre, Manchester and Wellcome Trust: (1993-2012)

Comprising two main field and clinical epidemiological studies on asthma among school children in Ghana, namely:

- i) **Kumasi Asthma Studies** - conducted in Kumasi, Ghana;
- **Bifidobacterial species in stools of Ghanaian and UK/NewZealand born infants infants.**
A study to compare the prevalence of bifidobacterial species in the feces of infants born in Ghana

(with a low incidence of atopic diseases) to that of infants born in affluent countries with high incidences of asthma and allergies (New Zealand and the United Kingdom). The purpose was to make a rational choice of bifidobacterial species that could be investigated with respect to their impact on the expression of cell surface markers and the production of cytokines by dendritic cells which are principal antigen-presenting cells present at mucosal surfaces (including that of the gut), and therefore are likely to have an important role in the interplay occurring between the gut microbiota and the immune system.

Personal Role: Principal Investigator, Ghana.

- **Exercise-induced bronchospasm and atopy in Ghana: two surveys ten years apart:**
A study to compare the prevalence exercise-induced bronchospasm (as a surrogate measure of asthma prevalence) and atopy in Ghana ten years apart. Reported Feb 2007.
Funding by North West Lung Centre, Manchester and Wellcome Trust: Amount £79000.

Personal Role: Principal Investigator

International Study of Asthma and Allergies in Childhood (ISAAC):

Collaboration with Kintampo Health Research Centre and North West Lung Centre, Manchester, UK

- **The prevalence and inter-relationships between atopic sensitization and asthma in Ghana** as well as other parts of the world as part of multicentre prevalence studies on Asthma and Allergies in Childhood – International Study on Asthma and Allergies in Children: **ISAAC Phase Two Study Group.**

Personal Role: Principal Investigator, Ghana site.

- **The effect of breastfeeding on asthma, lung function and bronchial hyperreactivity** in International Study on Asthma and Allergies in Children (ISAAC) Phase II

Personal Role: Principal Investigator, Ghana site.

- **How well questionnaires perform compared with physical examination in detecting flexural eczema:** International Study on Asthma and Allergies in Children (ISAAC) Phase II

Personal Role: Principal Investigator, Ghana site.

- **Multicentre study on candidate genes for wheeze and allergy:** International Study of Asthma and Allergies in Childhood Phase II.

Personal Role: Principal Investigator, Ghana site.

- **International variations in bronchial responsiveness in children:**
Personal Role: Principal Investigator, Ghana site.

- **Effect of diet on asthma and allergic sensitisation**
Personal Role: Principal Investigator, Ghana site.

ii) **International Study on Asthma and Allergy in Children (ISAAC) Phase Two studies** (1999 on) which was conducted in Kintampo, Ghana. (i.e. Multi-country studies to assess and compare environment, lifestyle, and clinical management of asthma using objective measures of the disease

Personal Roles: Principal Investigator for Kumasi Asthma Studies (Kumasi),
Co-Principal Investigator for ISAAC Phase Two Studies (Kintampo)
(and subsequently Principal Investigator)

e) Childhood Pneumonia:

Management of Acute Bacterial Pneumonia in children in developing countries: 2002-2006.

Collaboration with Kintampo Health Research Centre, Ghana

Oral amoxicillin versus injectable penicillin for severe pneumonia in children aged 3 to 59 months: Follow-up studies

A multicentre equivalency study to compare oral amoxicillin with injectable penicillin in the treatment of World Health Organisation-defined severe pneumonia in children. Funding: USD 78000 over 3 years by World Health Organisation (WHO).

Personal Role: Principal Investigator, Kumasi, Ghana site

f) Young Infant Studies: Predictors of severe illness in young children: Follow-up studies

Funded by World Health Organization (WHO) through Applied Research in Child Health (ARCH) Project, Boston University, USA. Amount: US\$89000 for 2 years.

- Studies to describe the clinical and epidemiological profile of sick young children and to assess the clinical signs and historical factors that predict severe illness requiring hospital admission and management in these young infants.

Personal Role: Principal Investigator, Ghana site.

OTHER RESEARCH ACTIVITIES

g) Malaria treatment study:

- **Zinc Against Plasmodium Study (ZAP): 1999-2002**

An observational cohort study in 689 children enrolled in a multicenter, randomized, double-blind, placebo-controlled clinical trial of supplemental zinc among children with uncomplicated falciparum malaria in order to evaluate the relation between plasma zinc concentration and the acute phase response.

Conducted in collaboration with Kintampo Health Research Centre, Ghana and Applied Research on Child Health Project (ARCH), Boston University, USA. Funded through Kintampo Health Research Centre: Amount USD 25,000.

Personal Role: Principal Investigator, Kumasi, Ghana site.

h) Safety of Blood transfusions in children in Ghana: 2002-2008

Funding through Cambridge University, UK and Blood Transfusion Unit, KATH.

- **GB virus C genotype 1 in Ghana (West Africa).**

A study to describe the prevalence of GBV-C among mother-infant pairs in Ghana, and to describe the possible mode of transmission.

Personal Role: Co-Investigator, Child Health, KATH, Kumasi, Ghana site

- **Human erythrovirus (parvovirus) B19 and blood transfusions in Ghana:** Studies to describe the prevalence and effects of blood transfusion on human erythrovirus (parvovirus) B19-susceptible or -infected pediatric recipients:

Personal Role: Co-Investigator, Child Health, KATH, Kumasi, Ghana site.

- **The epidemiology of West Nile virus (WNV) in Ghana and its relevance to blood transfusions.**

Personal Role: Co-Investigator, Child Health, KATH, Kumasi, Ghana site

11. SPECIAL ACADEMIC INTERESTS

- Childhood Respiratory Illness and Asthma in developing countries
- Vaccinology and Immunisation Practice in Children;
- Child Survival Programmes in developing countries: -
Acute respiratory Infections,
Control of Diarrhoeal Diseases;
Integrated Management of Childhood Illness (IMCI)
- Paediatric AIDS/HIV infection
- Medical Education in Child Health in Developing Countries

12. RECENT PUBLICATIONS

1. Agyei-Baffour P, Ansong D, Adjei Osei F, Appiah S C Y, Owusu Kwarteng S, Nyanor I, Bonney J, Enimil A, Laryea D O, Dapaah JM, Mensah N, Osei-Peprah I, Owusu A, Addo-Yobo E, Osei-Akoto A, Owusu OA, Ampiah V, Saahene J O, Amuzu EX, Sylverken J. Social constructs, late recognition and decision making for managing fast breathing in children. *Children and Youth Services Review*. 2020 Nov, Vol 118, 105416. <https://doi.org/10.1016/j.childyouth.2020.105416>
2. Mosler G, Oyenuga V, **Addo-Yobo E**, Adeyeye OO, Masekela R, Mujuru HA, Nantanda R, Rylance S, Ticklay I, Grigg J. Achieving Control of Asthma in Children in Africa (ACACIA): protocol of an observational study of children's lung health in six sub-Saharan African countries. *BMJ Open*. 2020 Mar 18;10(3):e035885. doi: 10.1136/bmjopen-2019-035885.
3. Sylverken J, Robison JA, Osei-Akoto A, Nguah SB, Addo-Yobo E, Balch A, Bolte R, Ansong D. Decreased Mortality After Establishing a Pediatric Emergency Unit at an Urban Referral Hospital in Ghana. *Pediatr Emerg Care*. 2019 Jul 1. doi: 10.1097/PEC.0000000000001865.
4. Weinmayr G, Jaensch A, Ruelius AK, Forastiere F, Strachan DP; **ISAAC Phase Two Study Group**. Can environment or allergy explain international variation in prevalence of wheeze in childhood? *Eur J Epidemiol*. 2019 May;34(5):509-520. doi: 10.1007/s10654-018-0463-z. Epub 2018 Nov 11.
5. Enweronu-Laryea CC, Armah G, Sagoe KW, Ansong D, **Addo-Yobo E**, Diamenu SK, Mwenda JM, Parashar UD, Tate JE. Sustained impact of rotavirus vaccine introduction on rotavirus gastroenteritis hospitalizations in children <5 years of age, Ghana, 2009-2016. *Vaccine*. 2018 May 8. pii: S0264-410X(18)30245-7. doi: 10.1016/j.vaccine.2018.02.058.
6. Lartey BL, Damanka S, Dennis FE, Enweronu-Laryea CC, **Addo-Yobo E**, Ansong D, Kwarteng-Owusu S, Sagoe KW, Mwenda JM, Diamenu SK, Narh C, Binka F, Parashar U, Lopman B, Armah GE. Rotavirus strain distribution in Ghana pre- and post- rotavirus vaccine introduction. *Vaccine*. 2018 Jan 20. pii: S0264-410X(18)30034-3. doi: 10.1016/j.vaccine.2018.01.010.
7. Moschovis PP, **Addo-Yobo EO**, Banajeh S, Chisaka N, Christiani DC, Hayden D, Jeena P, MacLeod WB, Mino G, Patel A, Qazi S, Santosham M, Thea DM, Hibberd PL. Stunting is associated with poor outcomes in childhood pneumonia. *Trop Med Int Health*. Oct;20(10):1320-8. doi: 10.1111/tmi.12557. Epub 2015 Jul 15.
8. Hamer DH, Darmstadt GL, Carlin JB, Zaidi AK, Yeboah-Antwi K, Saha SK, Ray P, Narang A, Mazzi E, Kumar P, Kapil A, Jeena PM, Deorari A, Chowdury AK, Bartos A, Bhutta ZA, Adu-Sarkodie Y, Adhikari M, **Addo-Yobo E**, Weber MW; Young Infants Clinical Signs Study Group. Etiology of bacteremia in young infants in six countries. *Pediatr Infect Dis J*. Jan;34(1) 2015:e1-8. doi: 10.1097/INF.0000000000000549.
9. Weinmayr G, Forastiere F, Büchele G, Jaensch A, Strachan DP, Nagel G; **ISAAC Phase Two Study Group**. Overweight/obesity and respiratory and allergic disease in children: international study of asthma and allergies in childhood (**ISAAC**) phase two. *PLoS One*. 2014 Dec 4;9(12):e113996. doi: 10.1371/journal.pone.0113996. eCollection 2014. Erratum in: *PLoS One*. 2015;10(4):e0126678.
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16. Gisela Büchele, Jon Genuneit, Gudrun Weinmayr, Bengt Björkstén, Ulrike Gehring, Erika von Mutius, Alfred Priftanji, Renato T. Stein, **Emmanuel O. Addo-Yobo**, Kostas N. Priftis, Jayant R. Shah, Francesco Forastiere, Vija Svabe, Julian Crane, Wenche Nystad, Luis García-Marcos, Yıldız Saraçlar, Nuha El-Sharif, David P. Strachan, the **ISAAC Phase Two Study Group**. International variations in bronchial responsiveness in children: Findings from ISAAC phase two. <http://www3.interscience.wiley.com/journal/108562724/issue>. Published Online: Jul 1 2010 10:54AM DOI: 10.1002/ppul.21259
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13. EARLIER RESEARCH PUBLICATIONS

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20. **Addo-Yobo EO**, Lovel H, Aidoo M. Malnutrition and malaria gave him anaemia, and the blood transfusion gave him HIV. *Tropical Doctor.* 1992 Jul; 22(3): 123.

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23. **Addo-Yobo EO**, Custovic A, Taggart SC, Craven M, Baffoe-Bonnie B, Woodcock A. Risk factors for asthma in Ghana. *Journal of Allergy and Clinical Immunology*. 2001; Vol 108, Number 3, 363 – 368.
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28. Report on meeting to explore simplified antimicrobial regimens for the treatment of Neonatal Sepsis. Department of Child and Adolescent Health, WHO, Geneva, 2003 (WHO/FCH/CAH/04.1) (Contributor).
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36. **The Young Infant Study Group (YISG)**: Clinical Signs that predict severe illness in children under age 2 months: a multicentre study. *Lancet* 2008, Vol 371:135-42.
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39. Wang W, Sarkodie F, Danso K, **Addo-Yobo E**, Owusu-Ofori S, Allain JP, Li C. Seroprevalence of West Nile virus in Ghana. *Viral Immunol*. 2009 Feb;22(1):17-22.
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14. OTHER PUBLICATIONS

Recent Books and Manuals

1. *Policy and Strategy for Quality Assurance and Patient Safety in the Health Sector*. Ministry of Health/WHO Ghana 2016
2. *Prototype Curriculum on Immunization for Medical Schools in the WHO African Region. 2nd Edition 2016. WHO AFRO*
Prototype Curriculum on Immunization for Nursing and Midwifery Schools in the WHO African Region. 2nd Edition. WHO AFRO

3. *A Manual on Control of Communicable Diseases.*
Ministry of Health, Ghana. NHLMC-HRDD/Min. of Health, Ghana 2000:
Contributor on chapter on Acute Respiratory Infections.

Paediatric Treatment Guidelines-2010

Child Health Directorate, Komfo Anokye Teaching Hospital, Kumasi :
Contributor on Childhood Respiratory disorders and Diarrhoeal diseases management

Consultancy Reports

1. Uganda National Expansion Programme on Immunization (UNEPI) Training Needs Assessment, Report: Ministry of Health, Uganda. 2016
2. Joint Report on Training Needs assessment for WHO and UNICEF staff working on Immunization in 5 countries: DRC, Chad, Ethiopia, Nigeria and Uganda. December 2013
3. Revised EPI curricula and Nursing and Midwifery Training Institutions in Swaziland. WHO/MoH Swaziland, July 2013
4. Mozambique National EPI Programme, Ministry of Health – Training Needs Assessment Report: May-June 2009 (50 page report)
5. National EPI Program, Ministry of Health, Liberia: Training Needs assessment and Harmonized EPI Training Plan 2006-2010 Report. May June 2006 (61-page report)

15. RECENT CONFERENCES/SEMINARS AND WORKSHOPS

2019:

- **Child Health Conference.**

Komfo Anokye Teaching Hospital (national): Golden Bean Hotel, Kumasi: 08 – 10 May 2019. Resource persons on Paediatric Pulmonology - Presenter on: Respiratory distress in Children and Community-Acquired Pneumonia in Children.

2018:

- **PATS & SATS Congress 2018 (Pan African Thoracis Society (PATS) and South African Thoracis Society (SATS)),** 12-15 April 2018, Durban ICC, South Africa.

Title of Presentation: “Asthma and Allergy in Africa – Observations, Issues and Opportunities” by Prof. Emmanuel Addo-Yobo

- **Workshop for Chairpersons of National Polio Certification Committees (NCC) and National Polio Experts Committees (NPEC) of West Africa,** LOME, TOGO - 23 -26 October 2018.

2017:

- **Orientation Workshop of Chairmen of NCCS-NPEC of West Africa:** Dakar, Senegal: 16-20 October 2017

- **Revision Course 2017 – Faculties of Child Health – West African College of Physicians and Ghana College of Physicians.** 26th – 30th June 2017

Presenter on: *Special Considerations with Common Breathing Disorders in Children,* and
Practical Session on Paediatric Pulmonology
Current trends in Management of Infections in Children (sessions sponsored by *Sanofi*)

- **2017 Paediatric Conference.**

Komfo Anokye Teaching Hospital (national): Golden Bean Hotel, Kumasi: 02-04 May 2017.
Key resource persons on Paediatric Pulmonology
Presenter on: *Acute and Chronic Asthma in Children.*

- **Expanding Rotavirus Surveillance to include other diarrhoeal pathogens and New Vaccine Surveillance data linking orientation Workshop,** Lome, Togo, 27-31 March 2017.

Participant.

- **KNUST Asthma Updates (Meeting)**

Golden Tulip Hotel Kumasi City; 27th July, 2016 (sponsored by AstraZeneca)
Key Presenter

2016:

- **The Fifteenth Meeting (CIPP XV) of the International Congress of Pediatric Pulmonology (CIPP),** Naples, Italy. 23-26 June, 2016

Faculty member and Presenter of two Talks:

“*Is Severe Asthma the Same throughout the World?*” during session on Poorly Controlled Asthma and
“*Outcomes in Childhood Pneumonia in the Developing Countries.*” during the session on Highly Prevalent Clinical Issues

- **10th African Rotavirus Symposium**, Bamako, Azalaï Hotel Salam, Bamako, Mali. 1-2 June 2016. Abstract Presentation on “Epidemiological profile of children under five years presenting with acute diarrhoea and vomiting at Komfo Anokye Teaching Hospital Surveillance Site, Kumasi, Ghana”
- **Child Health Conference**
KATH-Utah University of Medicine Collaboration; Golden Bean Hotel, Kumasi. 22-26 April 2015
Facilitator/Session Chairman and Presenter on Update on Diarrhoeal disease Management in Children.

2015:

- **Ghana Patient Safety Policy development meeting.** Erata Hotel, East Legon
26-29 October, 2015. Member and Resource person
- **Medical Knowledge Fiesta 2015;** Ghana College of Physicians & Surgeons, Accra 14 – 17 September 2015.
Presentation on “Management of Severe Asthma: ERS/ATS Guidelines”
- **Workshop to Review and Harmonize content of MLM Modules and EPI prototype curricula for Medical and Nursing and Midwifery training schools:** Brazzaville, Congo: 04-18 April 2015: Facilitator/Consultant for EPI prototype curricula review team.
- **European Respiratory Society (ERS) Annual Congress - 2013**, Barcelona, Spain. 7-11 September 2013.
Presenter on the Symposium: “The Impact of urbanization in asthma and allergy among children and adults. Topic: Urbanisation and Respiratory disease: The African Experience”
- **New vaccines surveillance data management training workshop and rollout of revised NVS modules for countries of the IST West Africa**, Ouagadougou, Burkina Faso, September, 7th -11th, 2015
- **Paediatric Conference 2015.** Department of Child Health SMS-KNUST/KATH initiative: Theme: Improving Standards of Paediatric care at District and regional and Tertiary Hospitals: - The way to go. Sunset Hotel, Kumasi 22-24 April 2015
Facilitator/Session Chairman and Presenter on Updates on Diarrhoeal diseases and Pneumonia in Children.
- **Workshop to review the Standard Treatment Guidelines and Essential medicines List**, Coconut Groove, Elmina, 24-27 January 2015

2014:

- **Child Health Conference**
KATH-Utah University of Medicine Collaboration; True Vine Hotel, Kumasi. 22-26 April 2014
Facilitator/Session Chairman and Presenter on *Update on Diarrhoeal disease Management in Children.*
- **African Partnership for Patient Safety (Learning Symposium),**
Harare, Zimbabwe, 13-15 May 2014

2013:

- **WHO National Workshop on Patient Safety Policy and Strategic Plan**
Harare, Zimbabwe. 9-13 September 2013
- **5th Regional Vaccinology Course for Anglophone Countries:**
Burgers Park Hotel, Pretoria, South Africa. 27 May – 1 June 2013. Resource person on New Vaccines session (Pneumococcal Vaccines)
- **Regional Workshop to revise EPI prototype curricula for Medical and Nursing/Midwifery Training Institutions in the African region.**
NSA Hotel, Grand Bassam, Cote d'Ivoire. 13 -17 May 2013. Co-facilitator
- **Child Health Conference**
KATH-Utah University of Medicine Collaboration; True Vine Hotel, Kumasi. 22-26 April 2013
Facilitator/Session Chairman and Presenter on *Update on Diarrhoeal disease Management in Children.*
- **International Society for Quality Health Care (IsQua): African Regional Meeting**
Resource Person. January 2013

2012:

- **Child Health Conference**
KATH-Utah University of Medicine Collaboration; True Vine Hotel, Kumasi. 7th -11th May 2012
Facilitator/Session Chairman and Presenter on *Update on Pneumonia Management in Children* and *Update on Asthma Management in Children.*
- **4th Regional Vaccinology Course for Anglophone Countries:**
Safari Park Hotel, Nairobi. 17th – 24th March 2012.
Facilitator and Presenter on *Pneumococcal Vaccines*
- **Medical Technical Options Committee Meeting:**
Pan Pacific Hotel, Dhaka, Bangladesh. 14th-16th March 2012.
Committee Member

2011:

- **2011 International Symposium on Reducing Child Mortality: Thinking outside the hospital for effective medical care:**
7th World Society of Paediatric Infectious Diseases Congress. Médecins Sans Frontières Australia and Epicentre, Melbourne, Australia. Melbourne Convention Centre, South Wharf, Melbourne. 15th November, 2011.
Presenter on *EPI Programs: time for change?*
- **Launch of *Symflorix* and *Rotarix* Vaccines in Ghana:**
Two day Conference on the Role of Vaccines in improving child Survival against pneumococcal and rotavirus diseases. GlaxoSmithKline (GSK) in collaboration with Ghana Paediatric Society. Fiesta Royale Hotel, Accra. 25th and 26th August 2011
Presenter on "*Pneumococcal disease – Aetiology and Management*" and "*Rotavirus, Prevalence in Ghana, Aetiology and Management*".

- **Nestlé-Ghana Scientific Meetings, Koforidua, Takoradi, Kumasi, Tamale**
Key Presenter on “Effects of Vaginal versus Caesarean section on Neonatal Immune responses – The role of Gut microbiota”. July –August 2011
- **Stakeholders Meetings on Job Aids for Obstetric and Newborn care.**
Ghana Health Service, Ange Hill Hotel, East Legon. December 2010 – June 2011
Reviewer and Contributor
- **Global Intellectual Property Academy Regional Seminar and Workshop on Intellectual Property Management and Technology Commercialisation.**
Kenya School of Monetary Studies, Nairobi. 24th -26th May 2011.
Participant
- **Adaptation Workshop: WHO Pocket Handbook of Hospital Care for Children.**
Ghana Health Service. Erata Hotel Accra 27-29th April 2011
- **Nestlé-Ghana Scientific Meeting, National Theatre, Accra**
Key Presenter on “Effects of Vaginal versus Caesarean section on Neonatal Immune responses – The role of Gut microbiota”. 27th April 2011
- **Workshop for Stakeholders in Voluntary Blood Transfusion**
Komfo Anokye Teaching Hospital, Kumasi. 9th April 2011
Key Presenter
- **KATH-Utah Paediatric Conference. Updates in Child Health Topics.**
Child Health Directorate, Komfo Anokye Teaching Hospital, Kumasi. 4th – 7th April 2011.
Facilitator/Presenter

2010:

- **3rd Annual Scientific Conference, College of Health Sciences, KNUST**
Theme: Reproductive and Child Health – Current Trends and Challenges
Principal Guest Speaker – “Neonatal Survival in Ghana- Challenges and Way Forward”
26th -27th August 2010
- **Respiratory Insights from ATS 2010 – LIVE POST –ATS WEBCAST.** Golden Tulip Hotel, Kumasi. 1st June 2010. Chairman.
- **Field Testing of Revised New Vaccines Surveillance and Routine Data Management Modules, Ghana, 26-27 April 2010:** NTBP Conference Room, Korle Bu Accra.

2009:

- **3rd Regional Vaccinology Course for Anglophone Countries in Africa.** Safari Park Hotel, Nairobi, Kenya, 17th – 22nd August 2009; -Facilitator
- **3rd West Africa Rotavirus Advisory Board Meeting,** Abuja, Nigeria. 24th November 2009
- **AstraZeneca Specialist Symposium, Somerset, South Africa: 8-10th May 2009.**
- **Workshop on developing and Harmonising Vaccinology Training Materials and Handouts. WHO/NESI. Centurion Lake Hotel, Pretoria, South Africa: 26 to 30 April 2009.**
Participant.
- **Research Capacity Development, Scaling Up Meeting.** Komfo Anokye Teaching Hospital (KATH), Liverpool School of Tropical Medicine (LSTM) and KNUST-SMS. 20th – 23rd October 2008,

Miklin Hotel, Kumasi: Participant.

- **2nd Annual Scientific Conference, College of Health Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana:** Theme: Lifestyle and Non-Communicable diseases (Diabetes, Obesity, Hypertension and Cancers) September 2009

2008:

- **2nd Regional Vaccinology Course for Anglophone Countries in Africa. Safari Park Hotel, Nairobi, Kenya, 04 -09 August 2008; -Facilitator**
- **Workshop for Under- fives: MOH/GHS/UNICEF;** 3rd – 7th November 2008, Coconut Grove Regent Hotel, Accra
- **Strategic Development.,** Member from tertiary Institutions
- **Strategic Leadership and Management for Institutional Transformation, College of Health Sciences, KNUST, Kumasi.** SMS/TALIF Leadership training Workshop, Eusbett Hotel, Sunyani, 1st – 5th September 2008
Participant
- **1st Annual Scientific Conference, College of Health Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana:** Theme: Addressing the Ghanaian Health Needs: Education and Research on HIV/AIDS, Tuberculosis and Malaria. Noda Hotel, Kumasi: 28th -29th August 2008
- **Curriculum review Workshop for Heads of Departments,** College of Health Sciences, KNUST, 25th -26th April 2008. KCCR Seminar Room
- **1st West Africa Rotavirus Advisory Board Meeting,** Novotel, Accra, 25th November 2008, Participant

2007:

- **Consensus Building Meeting on National Integrated Management of Childhood Illness (IMCI) Guidelines to Include HIV, Newborn care and other Technical Updates;** Child Health Unit, Ghana Health Service; 14th November, 2007, Miklin Hotel, Accra.
- **Orientation for Pharmacy House Officers starting Internship Programme,** KATH, 2007: Resource person on “Use of Intravenous Infusion and Other Equipment.
- **9th Annual General Meeting of the African Regional Certification Commission (ARCC)** (Reporting for Certification for Poliomyelitis Eradication in Ghana); 8th - 10th October, 2007, Brazzaville, Republic of Congo
- **Regional Patent Drafting Workshop** (World Intellectual Property Organisation/African Regional Intellectual Property Organisation), ARIPO Headquarters, Harare, Zimbabwe, 3rd – 14th September, 2007.
- **Consensus Workshop on Integrated Training Package on Expanded Programme for Immunisation and Child Health;** Ouidah, Benin, 6th-10th August 2007

- **2nd Global View of Food Allergy Meeting;** Nogouchi Memorial Institute for Medical Research (NNIMR), Accra, 27th-29th March 2007
- Course for Prescribers on Common Paediatric Emergencies, Ashanti Region, 3-5th April 2007, In-Service Training Centre, Child Health Directorate, KATH:
Key Resource person on Asthma and Diarrhoeal Diseases in Children
- Dissemination of Guidelines for School Health for Southern and Northern Sectors: . Accra Metro Training Unit and Regional Health Directorate Conference Hall, Kumasi. 12th and 15th March 2007
- **RCH annual and biannual meeting, February 2007**
- **Ghana Medical Association Continuing Professional Development National Symposium, Northern Sector.** Theme: Impact of Environment on Health. Miklin Hotel, 1st October 2004
Delivered Presentation on “Impact of Environment and Child Health”

2006:

- **4th African Rotavirus Symposium,** University of Mauritius. 14th – 18th July 2008
- **Intellectual Property (IP) Strategy and Technology Licensing; World Intellectual Property Organisation (WIPO) National Workshop,** (Organised by WIPO in cooperation with Ministry of Justice, Republic of Ghana and University of Ghana) Nogouchi Memorial Institute for Medical Research (NNIMR), Accra, December 2006
- **RCH annual and biannual meetings,** February 2004-
- **Fixed-dose Artemisinin-based Combination Therapies (FACT) Meeting for Malaria Control Managers,** Drugs for Neglected Diseases Initiative (DNDi) Meeting; Nairobi; September 2006
- **Coartem® Stand Alone Meeting and National Malaria Control Programme Best Practice Workshop,** Johannesburg, May 2006
- **Consensus workshop on EPI curricula prototypes for both Medical and Nursing/Midwifery schools:** Douala, Cameroon, March 2006.
- **1st Rotavirus Africa Meeting,** Nairobi, Kenya November 2005
- **1st Rotavirus Africa Meeting,** Nairobi, Kenya November 2005

16. REFEREES

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