

BIOGRAPHICAL SKETCH

NAME and ADDRESS Dr. Sandra Kwarteng Owusu P.O. Box 1934 Komfo Anokye Teaching Hospital (KATH) Kumasi Ghana Phone +233 207 343156 Office +233 322022301-1 Email abenboamah18@gmail.com ORCID ID: https://orcid.org/0000-0001-6439-1643		POSITION AND TITLE Senior Lecturer Paediatric Pulmonologist Department of Child Health and Paediatrics- School of Medicine and Dentistry-Kwame Nkrumah University of Science and Technology Komfo Anokye Teaching Hospital Kumasi, Ghana.	
EDUCATION /TRAINING			
INSTITUTION AND LOCATION	DEGREE If applicable	YEAR	FIELD OF STUDY
University of Cape Town	MPhil	12/2020	Paediatric Pulmonology
Colleges of Medicine South Africa Paediatric Pulmonology Fellowship	Sub-Specialty Certificate in Paediatric Pulmonology	10/2018	Paediatric Pulmonology (Colleges of Medicine South Africa)
Ghana College of Physicians and Surgeons	Fellowship	12/2019	General Paediatrics
West African Post Graduate Medical College	Fellowship	10/2013	General Paediatrics
Stellenbosch University	Post Graduate Certificate	2012	Paediatric Gastroenterology and Nutrition
Liverpool School of Tropical Medicine and Hygiene	Post Graduate Diploma	2011	Project Design and Management
West African Post Graduate Medical College	Membership	2008	General Paediatrics
Vienna School of Clinical Research	Certificate	2008	Ethical aspects of Clinical Research
Johns Hopkins University, School of Hygiene and Public Health	Certificate	2007	Epidemiology and Biostatistics.
West African Post Graduate Medical College	Primary	2006	General Paediatrics
Albert Schweitzer Hospital Medical Research Unit (Affiliate of Vienna School of Clinical Research) Lambaréné, Gabon.	Certificate	2007	Introduction to Clinical Epidemiology
Kwame Nkrumah University of Science and Technology(KNUST)	MBChB	2003	Medicine
Kwame Nkrumah University of Science and Technology	BSc	2000	Human Biology
Presbyterian Secondary School and Sixth Form Science College	GCE A' Level	1996	Advanced level Certificate
Ghana Secondary School, Koforidua	GCE O' Level	1994	Ordinary level Certificate

POSITIONS

2020 to date- Member – National Tuberculosis Management Guideline Development Working Group- National Tuberculosis Control Programme, Ghana. September 2020 to date
2020 to date - Member -National Asthma Management Guideline Development Working Group- Ghana Thoracic Society, September 2020 to date
2021 to date - Member Pediatric COVID-19 Management Guideline Development Working Group-Pediatric Society of Ghana, January 2021 to date
2019 to date Paediatric Pulmonologist, Paediatric Cardio-Respiratory unit, Paediatric Respiratory clinic, Asthma and Allergology clinic, Department of Child Health and Paediatrics, Komfo Anokye Teaching Hospital, Kumasi Ghana January 2019 to date
2019 Internal Examiner for MB Ch B PART 1B examination organised by the Department of Child Health and Paediatrics, School of Medicine and Dentistry, KNUST and Komfo Anokye Teaching Hospital Kumasi Ghana, 26th -29th August, 2019
Clinical Trial Monitor (Mampong Ashanti Region Study Site), Evaluating the impact of using continuous positive airway pressure (CPAP) on mortality among children admitted into emergencies in two District Hospitals in Ghana, April 2015 to December, 2015
Examiner/ Supervisor for the Diploma in Project Design and Management program- currently organised by the Ghana College of Physicians and Surgeons 2014 to date
Senior Specialist in the Department of Child Health and Paediatrics Komfo Anokye Teaching Hospital, Kumasi Ghana January 2014 to date
Journal Reviewer, Transactions of the Royal Society of Tropical Medicine and Hygiene 2014 to date
Member, Data Safety Monitoring Board for the Multiple Micronutrient Study, Barekuma Ashanti Region Ghana, July 2014 to July 2016
Part-time Lecturer- Senior Grade: Department of Child Health and Paediatrics, Kumasi School of Medicine and Dentistry, KNUST August, 2019-to- September, 2020
Adjunct Lecturer- Department of Child Health and Paediatrics, Kumasi School of Medicine and Dentistry, KNUST 2011 to 2019 .
Demonstrator - Department of Child Health and Paediatrics, Kumasi School of Medicine and Dentistry, KNUST, 2008-2011 .
Gap Years 2017/2018 Academic Year for Paediatric Pulmonology training.
Chief Resident supporting with the organisation and conduct of MB Ch B PART 1B Clinical Examination for the Department of Child Health and Paediatrics, Komfo Anokye Teaching Hospital Kumasi, Ghana, September 2012 to 2014 .
Paediatrician Specialist Department of Child Health and Paediatrics, Komfo Anokye Teaching Hospital Kumasi, Ghana, April 2008 to January 2014 .
Specialist Clinician -Asthma and Allergology clinic for children, Department of Child Health and Paediatrics, Komfo Anokye Teaching Hospital Kumasi, Ghana, October 2009- Oct 2013
Specialist Clinician HIV and Tuberculosis clinic for children, Department of Child Health and Paediatrics, Komfo Anokye Teaching Hospital Kumasi, Ghana 2009- to 2012
Clinical Research Officer WHO/AFRO- Bacterial Meningitis Surveillance Programme in the Department of Child Health and Paediatrics, Komfo Anokye Teaching Hospital, Kumasi Ghana October 2004 to 2010
Paediatric Resident, Department of Child Health and Paediatrics, Komfo Anokye Teaching Hospital, Kumasi Ghana - September 2006- October 2008
District Rotation for Residency training in Child Health and Paediatrics , Agogo Presbyterian Hospital July 2006 to October 2007 .
Medical officer Department of Child Health and Paediatrics, Komfo Anokye Teaching Hospital, June 2004 to August 2006
House officer -Department of Child Health and Paediatrics Komfo Anokye Teaching Hospital December 2003 to May 2004
House officer -Department of Surgery, Komfo Anokye Teaching Hospital June 2004 to November 2004

AWARDS AND HONOURS RECEIVED

1. **Best Senior Specialist- Year 2019** -Directorate of Child Health and Paediatrics Komfo Anokye Teaching Hospital.
2. **Best Scientific Presentation-** Early origins of COPD in Childhood -Annual General Meeting West African College of Physicians (Ghana Chapter),Kumasi Ghana -July 2019
3. **Travel Grant Award**, award presented by University of Cape Town, Departmental Research Committee for abstract presentation on Cystic Fibrosis in Black African Children in South Africa in Liverpool UK, June,2019.
4. **Travel grant award for abstract presentation-** Cystic fibrosis in black African Children in South Africa award presented by European Cystic Fibrosis Society - Annual General Meeting, Liverpool 5th to 8th June,2019.
5. **University of Cape Town, Department of Child Health and Paediatrics Research Grant** award for MPhil work on Cystic Fibrosis in Black African Children in South Africa January 2017- November 2018.
6. **Travel Grant Award for abstract presentation-**Clinical profile and outcomes of children presenting to a tertiary hospital with Respiratory diseases, awarded by the International Society on Pneumonia and Pneumococcal diseases, Glasgow Scotland, June 2016.

Civil Service Grades

Senior Specialist	2014 to Date
Specialist	2008 to 2014
Medical Officer	2004 to 2006
House Officer	2003 to 2004

Membership

- Member Paediatric Society of Ghana
- Member Ghana Thoracic Society
- Member South African Thoracic Society
- Member Pan-African Thoracic Society
- Member European Cystic Fibrosis Society
- Member European Respiratory Society

CURRENT RESEARCH POSITIONS WITH INTERNATIONAL COLLABORATION AND FUNDING

1. **Principal Investigator** – Pulmonary Function Assessments in children with sickle cell disease in Cape Town. Partially funded by the Department of Child Health and Paediatrics, Departmental research committee, a collaboration between Komfo Anokye Teaching Hospital, University of Cape Town and Red Cross War Memorial Children's Hospital .- [June 2018 - to date](#)
2. **Co- Principal Investigator-**Achieving Control of Asthma in Children in Africa (ACACIA) a Multi Centre study funded by the National Institute for Health Research (NIHR) in collaboration with Queen Mary University in London, KNUST School of Medicine and Dentistry, Komfo Anokye Teaching Hospital Kumasi, Ghana and five other participating countries -[July 2019 to date](#).

3. **Study Clinical Coordinator** -A Cross-sectional Study of Urinary Triclosan Levels in Nigerian and Ghanaian Children with Asthma and the Association Between Triclosan Levels and Asthma Control, a collaboration between Liverpool University, KNUST School of Medicine and Dentistry and Komfo Anokye Teaching Hospital, Kumasi, Ghana and College of Medicine University of Ibadan and University College Hospital, -July 2019 to date.

PREVIOUS RESEARCH POSITIONS

1. **Lead Clinical Investigator**, Consortium on Asthma among African-ancestry Populations in the Americas (CAAPA study), a collaborative study between KNUST School of Medicine and Dentistry Kumasi Ghana, Komfo Anokye Teaching Hospital and University of Colorado, USA, Sponsored by National Institutes of Health, National Heart, Lung and Blood Institute (NHLBI), [January 2019 to July 2019](#)
2. **Principal Investigator**- Cystic Fibrosis in Ethnic Black African Children in South Africa- a retrospective case control study, collaboration between two sites University of CapeTown and the Witwatersrand University in Johannesburg partially funded by the Department of Child Health and Paediatrics, Departmental research committee, University of Cape Town -[January, 2017 to October 2018](#).
3. **Principal Investigator**- Clinical and epidemiological profile of children with Asthma at Komfo Anokye Teaching Hospital (Self Sponsored.), [June 2014 to 2018](#).
4. **Clinical Investigator**, Barekuma Collaborative Community Development Programme. An international collaboration between Komfo Anokye Teaching Hospital, KNUST School of Medicine and Dentistry Kumasi Ghana and the University of UTAH-United States of America (USA), [December 2004 to June 2006](#)
5. **Clinical Investigator**; A Phase II randomized, controlled, partially-blind study of the safety and immunogenicity of GlaxoSmithKline (GSK) Biologicals' candidate *Plasmodium falciparum* vaccines RTS, S/AS02D and RTS, S/AS01E, when administered IM according to one of three dose schedules in children aged 5 to 17 months living in Ghana. Sponsored by Malaria Vaccine Initiative (MVI) and GSK, [July 2006 to October 2007](#)

PUBLICATIONS

1. Peter Agyei-Baffour, Daniel Ansong, Francis Adjei Osei, Seth Christopher Yaw Appiah, **Sandra Owusu Kwarteng**, Isaac Nyanor, Joseph Bonney, Anthony Enimil, Dennis Odai Laryea, Jonathan Mensah Dapaah, Nicholas Mensah, Ida Osei-Peprah, Alfred Owusu, Emmanuel Addo-Yobo, Alex Osei-Akoto, Osei Asibey Owusu, Victoria Ampiah, Joana Osei Saahene, Evans Xorse Amuzu, Justice Sylverken- Social constructs, late recognition and decision making for managing fast breathing in children, *Children and Youth Services Review*, Volume 118, 2020, 105416, ISSN01907409, <https://doi.org/10.1016/j.chidyouth.2020.105416>. (<http://www.sciencedirect.com/science/article/pii/S0190740920308719>).
2. Educating caregivers to recognise the clinical signs of pneumonia in children younger than 6 months- D Ansong, F A Osei, **S K Owusu**; I Nyanor; J Bonney, A Enimil ; D O Laryea; J Dapaah, P Agyei-Baffour; N Mensah; I Osei-Peprah; A Owusu; E Addo-Yobo; A Osei-Akoto; O A Owusu; S C Y Appiah; V Ampiah.; J O Saahene; E X Amuzu; M Telly; J Sylverken, *S Afr J Child Health* 2020;14(2):70-76. <https://doi.org/10.7196/SAJCH.2020.v14i2.1642>.

3. **Sandra Kwarteng Owusu**, Brenda M Marrow, Debbie White, Susan Klugman, Aneesa Vanker, Marco Zampoli Cystic Fibrosis in Black African children in South Africa: case control study– Journal of Cystic Fibrosis, <https://doi.org/10.1016/j.jcf.2019.09.007>
4. Renner LA, Usuf E, Mohammed NI, Ansong D, Dankwah T, Kusah JT, **Owusu SK**, et al. Hospital-based Surveillance for Pediatric Bacterial Meningitis in the Era of the 13-Valent Pneumococcal Conjugate Vaccine in Ghana. Clin Infect Dis 2019;69(Supplement_2):S89-S96. doi:10.1093/cid/ciz464.
5. Lartey BL, Damanka S, Dennis FE, Enweronu-Laryea CC, Addo-Yobo E, Ansong D, **Kwarteng-Owusu S** et al. Rotavirus strain distribution in Ghana pre- and post-rotavirus vaccine introduction. Vaccine. 2018;36(47):7238-7242. doi:10.1016/j.vaccine.2018.01.010.
6. **Owusu SK**, Ansong D, Poku CKA, Owusu RKK, Owusu MO, Addo-Yobo E, Armah G, Ampofo. G425 Rotavirus viremia and genotype characterization among children with rotavirus diarrhoea presenting to a teaching hospital. April 2015 Archives of Diseases in Childhood 100(Supplement 3):A175-A176 doi: 10.1136/archdischild-2015-308599.379
7. Samuel N. Uwaezuoke, Aadaeze C. Ayuk, Joy N. Eze, **Sandra K. Owusu**. Asthma in Childhood: Current Perspectives on Diagnosis and Treatment. European Medical Journal: EMJ Respir,2018;6[1]:90-99
8. Owusu-Agyei S, Ansong D, Asante K, Asante K, **Kwarteng Owusu S**, et al. Randomized controlled trial of RTS,S/AS02D and RTS,S/AS01E malaria candidate vaccines given according to different schedules in Ghanaian children. PLoS One. 2009;4(10):e7302. doi:10.1371/journal.pone.0007302
9. Ansong D, Asante KP, Vekemans J, **Kwarteng Owusu S**, Owusu R, Brobby NAW, et al. T cell responses to the RTS, S/AS01(E) and RTS, S/AS02(D) malaria candidate vaccines administered according to different schedules to Ghanaian children. PLoS ONE. 2011;6(4):e18891. doi:10.1371/journal.pone.0018891
10. Kwara A, Enimil A, Gillani FS, Yang H, Sarfo AM, Dompok A, Orsin A, Osei-Tutu L, **Kwarteng Owusu S** et al. Pharmacokinetics of First-Line Antituberculosis Drugs Using WHO Revised Dosage in Children with Tuberculosis with and without HIV Coinfection. J Pediatr Infect Dis Soc. 2016;5(4):356-365. doi:10.1093/jpids/piv035.
11. Daniel Ansong, Alex Osei-Akoto, **Sandra Kwarteng Owusu**, Isaac Boakye, Samuel Blay Nguah, David Sambian, Justice Sylverken, Bernard Arhin Haematological indices, nutritional assessment and mortality outcomes of children presenting with severe malaria to a tertiary hospital in Ghana. J Pediatr Sci. 2013;5(0) doi:10.17334/jps.29793.

PREVIOUS ABSTRACT PRESENTATIONS AT INTERNATIONAL AND LOCAL CONFERENCES

1. **Sandra Kwarteng Owusu**, Brenda Morrow Debbie White, Susan Klugman, Aneesa Vanker, Diane Gray and Marco Zampoli, **Cystic Fibrosis in Black African children in South Africa, A case control Study**,– 42nd- European Cystic Fibrosis Conference in Liverpool, United Kingdom, 5-8 June 2019.

2. **Sandra Kwarteng Owusu**, Diane Gray, Ibrahim Bandeker, Shaakira Chaya, Diana Marangu, Adaeze Ayuk, Noor Ain Noor Affendi, Aneesa Vanker, Komala Pillay, Marco Zampoli. **Hypersensitivity Pneumonitis with Tuberculosis- A case Report**, Combined Pan-African Thoracic Society and South African Thoracic Society Annual General Meeting April 2018, Durban South Africa.
3. Noor Ain Noor Affendi, **Sandra Kwarteng Owusu**, Adaeze Ayuk, Diana Marangu, Shaakira Chaya, Diane Gray, Aneesa Vanker, Komala Pillay, Marco Zampoli **Metastatic Thyroid Carcinoma of the Lung – A Case Report**, , Combined Pan-African Thoracic Society and South African Thoracic Society Annual General Meeting April 2018, Durban South Africa.
4. **Sandra Kwarteng Owusu**, Diane Gray, Aneesa Vanker, Brenda Marrow, Marco Zampoli **Cystic Fibrosis in Black African Children in South Africa**-a retrospective case control study. South African Thoracic Society Annual General Meeting August 2017, Cape Town South African.
5. **Sandra Kwarteng Owusu**, Daniel Ansong, Nyanor Isaac, Nukanti Happy, Sylverken Justice, Addo-Yobo Emmanuel. **Clinical profile and outcomes of children presenting to a tertiary Hospital with Respiratory Diseases**. International Society of Pneumonia and Pneumococcal Diseases, June 2016 Glasgow Scotland.
6. **Owusu SK**, Ansong D, Poku CKA, Owusu RKK, Owusu MO, Addo Yobo E, Armah G, Ampofo K. Rotavirus viremia and genotype characterization among children with rotavirus diarrhoea presenting to a teaching Hospital- Royal College of Pediatrics and Child Health Annual Conference in Birmingham April 2015.
7. **Burden of Rotavirus Acute Gastroenteritis in Children under five years in the Komfo Anokye Teaching Hospital**. Owusu SK, Ansong D, Nguah SB, Sylverken J. 3rd Annual Scientific Conference of the College of Health Sciences KNUST, August 2010.

Training and Workshops

1. Update Course on Paediatric Pulmonology, Allergology and Infectious Diseases - organised by Ghana College of Physicians and Surgeons and the West African College of Physicians Kumasi Ghana -February 2020.
2. Update Course of Pediatric Pulmonology and Paediatric Intensive Care a collaboration between the African Paediatric Fellowship Program, University of Cape Town and Departments of Child Health and Paediatrics Korle Bu Teaching Hospital, Accra and Komfo Anokye Teaching Hospital Kumasi - November 2020.
3. Training on performing sputum induction to obtain lower airway samples in children, organised by the National Tuberculosis Control Program November 2019.
4. Training on Measurement of Fraction of exhaled nitric oxide levels (FENO) in children- at the Komfo Anokye Teaching Hospital, Kumasi -May 2019.
5. Pan African Thoracic Society Short course on Spirometry at the Komfo Anokye Teaching Hospital, Kumasi -May 2019.
6. Komfo Anokye Teaching Hospital-Department of Child Health and Paediatrics :Respiratory Distress in Children at Golden Bean Hotel, Kumasi- May 2019.
7. European Respiratory Society (ERS)Summer School in Paediatric Respiratory Medicine – Lisbon Portugal -June 2018.

8. Here BE Lungs- Paediatric Respiratory Medicine International Update course – Stellenbosch University March 2018.
9. Here BE Lungs- Paediatric Respiratory Medicine International Update course – Stellenbosch University March 2017
10. Advanced Paediatric Life Support Programme (APLS) Internationally certified course organised by the University of CapeTown- Red Cross War Memorial Children's Hospital continuous medical education- September 2017
11. Basic Paediatric Tracheostomy and Ventilation workshop- April 2018
12. Basic Paediatric Tracheostomy and Ventilation workshop- September 2017
13. Basic Course in Paediatric Critical care – continuous medical education November 2017
14. Training on effective communication and presentation skills- organised by Wyeth Nutrition and Oyereyi Consult at the Sojourner Genesis Hotel Lagos -Nigeria, March 2016.
15. Diploma in project Design and Management Retreat for Facilitators-Ensign College of Public Health, Kopong, Ghana August 2015.
16. Respiratory Medicine Symposium by Royal College of Physicians Edinburgh (Live-Link- 2015) at the Komfo Anokye Teaching Hospital.
17. Medico-Legal Issues by MSSSI, Ghana at the Komfo Anokye Teaching Hospital 2014.
18. Komfo Anokye Teaching Hospital-Department of Child Health and Paediatrics, Paediatric Conference Sunset Hotel Kumasi Ghana, 2014.
19. Clinical Management of HIV / AIDS and Opportunistic Infections 2013 Workshop by National AIDS / STDS Control Programme (NACP) Update held at the Komfo Anokye Teaching Hospital Kumasi.
20. Komfo Anokye Teaching Hospital-Department of Child Health and Paediatrics, Paediatric Conference, True Vine Hotel - 2013.
21. Komfo Anokye Teaching Hospital- Department of Child Health and Paediatrics, Paediatric Conference True Vine Hotel- 2012.
22. Trainer of Trainees Course in Management of Severe Acute Malnutrition organised by the Ghana Health Service in Kumasi- 2011
23. Training Course in the Management of Severe Acute Malnutrition organised for the residents in the Department of Child Health and Paediatrics KATH in Kumasi- 2011.
24. Scientific Session Organized by Society of Medical Women Ghana held in Kumasi - 2008.

Community Services

- Radio Talk on Common Respiratory Problems in Children at Luv FM: December 2019.

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- Radio Talk on Asthma Awareness at Kessben FM: July 2019.
- Radio Talk on Allergic Disorders in Children at Luv FM: June 2019.
- World Asthma day event: June 2019 Asthma Education workshop for Children Living with Asthma and their families.
- Radio Talk on Asthma Awareness at Luv FM: May 2019.
- World Asthma day event Asthma Awareness Talk at St Anne's Anglican Church: May 2019.
- Health Outreach program organised by Pentecost International Worship Centre Asokwa branch for the Asokwa Community: April, 2019.
- Volunteer-Annual get-together organised by Breath-easy for children leaving with airway problems requiring tracheostomies. A non-governmental organisation based in Cape Town in South Africa, November 2017.

Facilitation and Presentations at Workshops and Conferences

1. Update Course on Paediatric Pulmonology, Allergology and Infectious Diseases - organized by Ghana College of Physicians and Surgeons and West African College of Physicians: *February 2020*
Facilitated and Presented on four topics: Complications of Community Acquired Pneumonia, Approach to the Child with Recurrent Wheeze, Pulmonary Complications of HIV in children and Obstructive Sleep Apnoea.
2. Update Course on Pediatric Pulmonology and Paediatric Intensive Care, a collaboration between the African Paediatric Fellowship Programme, University of Cape Town and Departments of Child Health and Paediatrics Korle Bu Teaching Hospital and Komfo Anokye Teaching Hospital: *November 2020*
Facilitated and Presented on Approach to the Child with Severe Pneumonia and Basics of Paediatric Tracheostomy -
3. Medical Education and Update on Nutrition: *September 2019*
Presented on Effect of Good Microbiota on Immunity programme organized by Nestle Nutrition Ghana. Golden Tulip Kumasi
4. Medical Education and Update on Asthma: *July 2019*
Presented on Diagnosis and Management of Asthma in Children programme organised by Astra Zeneca Ghana, at the Golden Bean Hotel Kumasi Ghana
5. Pan African Thoracic Society: European Respiratory Society and American Thoracic Society accredited program, *May 2019*
Facilitator-Spirometry Training Course in Kumasi Ghana
6. Komfo Anokye Teaching Hospital-Department of Child Health and Paediatrics : Annual Paediatric Conference : *May 2019*
Organizer and Facilitator Respiratory Distress in children at the Golden Bean Hotel
7. ERS Summer School in Paediatric Respiratory Medicine Summer School – Lisbon Portugal-June 2019.
Presented on two topics-Disseminated tuberculosis in children and Hypersensitivity Pneumonitis with tuberculosis

Referees

E.O.D Addo-Yobo MD FGCP, MWACP, MSc, DTCH
Professor of Child Health
School of Medical Sciences & Dentistry,
Kwame Nkrumah Univ. of Science & Technology,
Kumasi, Ghana
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Diane Margaret Gray
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