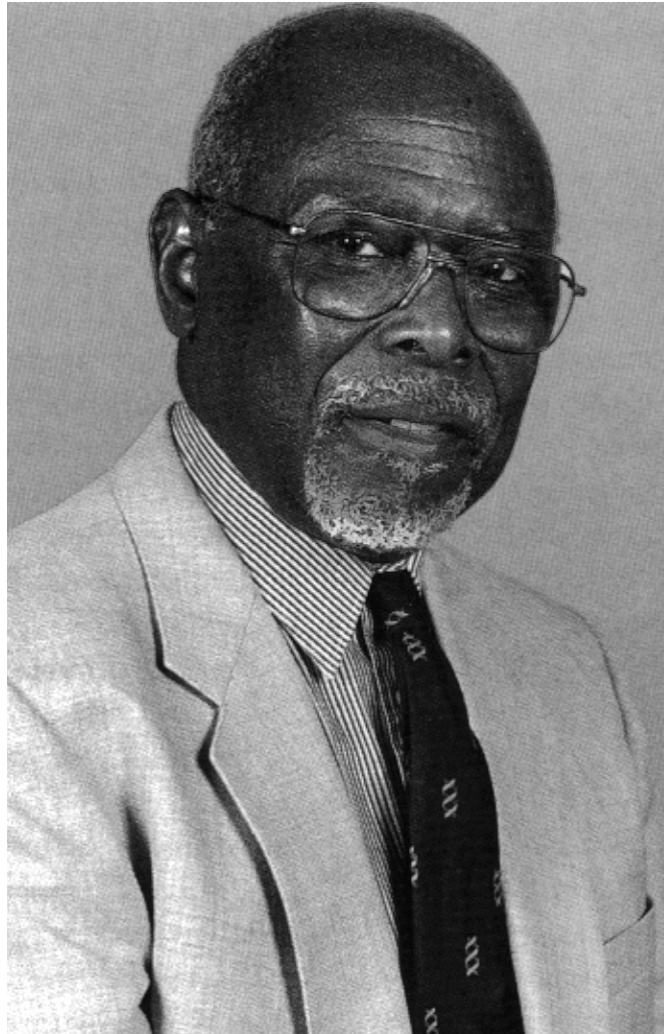


DR FELIX I D KONOTEY-AHULU
CURRICULUM VITAE

September 2002 AD

DR FELIX I D KONOTEY-AHULU

FGA MD (Lond) DSc(UCC) FRCP (Glasg) FRCP (Lond) FWACP DTMH (L'pool)



Dr Felix I D Konotey-Ahulu is “Dr Kwegyir Aggey Distinguished Professor of Human Genetics in the University of Cape Coast, Ghana”.

He has been Physician Consultant at the Cromwell Hospital, London and is Former Director of the erstwhile Ghana Institute of Clinical Genetics, and Former Physician to the Korle Bu Teaching Hospital, and Ridge Hospital, Accra.

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SUMMARY CURRICULUM VITAE

Dr F I D Konotey-Ahulu MD (Lond) FRCP (Lond) FRCP (Glasg) FWACP DTMH(L'pool) FGA, was born in the Manya Krobo tribe in Ghana. He was educated in Basel/Presbyterian Mission Schools, and Achimota School where he took the Cambridge School Certificate (Grade I) and the London Matriculation (1st Division). He went to the University College, Gold Coast, then to London University where he read Medicine (University College London & Westminster Hospital School of Medicine) graduating MB BS, MRCS LRCP in April/May 1959.

After full registration in the UK he joined the Ghanaian Civil Service as a Medical Officer. Post-graduate studies took him to Liverpool School of Tropical Medicine & Hygiene, Westminster Hospital, The Royal Postgraduate Medical School Hammersmith, and Professor (later Dame) Sheila Sherlock's Department of Medicine at the Royal Free Hospital London where he was Research Fellow.

He then went back to Ghana to the Korle-Bu Teaching Hospital and University of Ghana Medical School where he was Lecturer, then Senior Lecturer. He researched into Clinical Haemoglobinopathy and, together with Professor Bela Ringelmann (Hungary), Professor Hermann Lehmann (Cambridge), and others, he made several discoveries including *Haemoglobin Korle-Bu and Haemoglobin Osu-Christiansborg*. He was Physician Specialist at the Korle-Bu Teaching Hospital and Ridge Hospital Accra, and Director of the erstwhile Ghana Institute of Clinical Genetics. In 1972 he was National Foundation/March of Dimes Visiting Lecturer to 11 American Medical Schools including Yale, George Washington, Howard, Cornell, Rockefeller, Indianapolis, Chicago, Tennessee, and Johns Hopkins.

In the UK he was Schofield Fellow, Christ's College, Cambridge (1970-71) and in 1976 he gave the MacArthur Postgraduate Lecture at the University of Edinburgh. He has given lectures in Turkey, Brazil, Greece, Singapore, Australia, India, Hungary, Canada, Denmark, Switzerland, Sweden (Stockholm), and on the African continent he has lectured in Ghana, Nigeria, Cameroon, Ivory Coast, Sierra Leone, Liberia, Senegal, Kenya, Tanzania, Zambia and Egypt. He has done Grand Rounds at the NIH (Bethesda), George Washington University, Johns Hopkins, Howard University, Illinois and Chicago Universities, and in Cook County Hospital, Chicago. He was once Editor of the *Ghana Medical Journal*, Chairman of a Ghanaian Government Committee to investigate Hospital Fees, Member of the WHO Expert Advisory Panel on Human Genetics, and a temporary Consultant to the Commonwealth Secretariat's Medical Department in London.

In March 1980, he was the *University of Ghana Alumni Lecturer* on the subject "**Genes and Society, and Society and Genes**". He was Annual Visiting Professor to Howard University College of Medicine, and Honorary Consultant Physician to Howard University's Centre for Sickle Cell Disease, Washington DC.

HONOURS: (1). He was one of the recipients of the *Dr Martin Luther King Jr. Foundation Award* "for outstanding research in Sickle Cell Anaemia" (Philadelphia 1972). [Some other recipients present for the Award were Linus Pauling, Roland Scott, AC Allison, Bela Ringelmann, MF Perutz, JC Kendrew, JV Neel, and Graham Serjeant, when Konotey-Ahulu was chosen to give the Keynote Address] (2). In 1974 he was awarded the *Gold Medal of the Ghana Academy of Arts and Sciences* of which he is a Fellow (FGA), for "the most outstanding contribution to knowledge in the Medical Sciences by a Ghanaian between 1952 and 1973". (3). In 1976, in London, he received the *Guinness Award for Scientific Achievement (GASA)* in the Commonwealth "in recognition of his work in applying science to the service of the community". (4). In November 1999, Dr Konotey-Ahulu received from President Abdou Diouf of

Senegal the **1998 Third World Academy of Sciences Award** for outstanding work in the Basic Medical Sciences. The Citation mentioned not only his “outstanding contributions to haemoglobinopathy” but also “first description of some 5 new physical signs in Clinical Medicine, invention of the ‘Male Procreative Superiority Index’ (MPSI) which shed some light on aspects of African Anthropogenetics, and advocating ethical dimensions for genetic programmes, and highlighting public health measures as the best tool for long-term sickle-cell patient management”.

In March 1998, Dr Konotey-Ahulu was appointed ‘*Chief Visiting Clinician/Scientist, Kenya Medical Research Institute (KEMRI)*’ in Nairobi, where he is on the Editorial Board of the *African Journal of Health Sciences* published by The African Forum of Health Sciences (AFHES). Between 1965 and 2001 he published more than 185 articles, letters, editorials, book reviews, and comments. He has been round Sub-Saharan African countries studying AIDS, and has published 2 medical books - “**What is AIDS?**” [227 pages] & “**The Sickle Cell Disease Patient**” [643 pages]– and a booklet, “**Sickle Cell Disease – The Case For Family Planning**” [32 pages]. He is Visiting Consultant Physician, Cromwell Hospital, London SW5 0TU, and Honorary VALCO TRUST Visiting Research Consultant Physician to Ghana where he is involved in grass roots Community work and Adult Education in the Mother Tongue. He was an External Examiner in the University of Ghana’s Department of Medicine & Therapeutics.

In April 2000, he was appointed “*Dr Kwegyir Aggrey Distinguished Professor of Human Genetics, University of Cape Coast, Ghana*” the day after he had been awarded an Honorary Doctorate of Science (DSc) Degree. His Inaugural Lecture was “**Human Genetics and The Ghanaian African: How The New Genetics Affects You**”.

He was one of those elected Fellow of the Third World Academy of Sciences (TWAS, Trieste, Italy) in the year 2000. He was invited to present the African Viewpoint in an *International Symposium* on ‘The Human Genome Diversity Project’ published by *Politics and the Life Sciences*, Lake Superior State University, USA in September 1999. In his paper: “**The Human Genome Diversity Project: Cogitations of an African Native**”, Dr Konotey-Ahulu traced Sickle Cell Disease in his ancestry, with patients’ names, generation by generation back to 1670 AD, aided by the fact that the hereditary rheumatic illness was known to African tribes by specific names (*hemkom, chwechweechwe, nwiwii, ahotutuo, nuidudui*) for centuries before it was first described in the USA in 1910. This exercise in genetic genealogy, rare in Medical Archives, helped Dr Konotey-Ahulu to develop a discipline of genetic epidemiology to show how polygamy in his forebears could give rise to combinations of genes leading to variations in phenotypic expression of the rheumatic syndrome. His invention of a new genetic term, **Male Procreative Superiority Index** (MPSI), and its contribution to African anthropogenetics, is the direct result of this personalised genetic epidemiology using his forebears.

Felix Konotey-Ahulu has recently developed a method for writing African tonal languages which he has explained in a book titled “**Mother Tongue – Introducing The Tadka Phonation Technique For Speaking An African Tonal Language: Krobo/Dangme-Ga of South-East Ghana**” [82 pages - ISBN 0-9515442-4-1]. This book will help educate some Africans to read their own language more easily and quickly than has been possible hitherto. It will also help to explain the *principles* of Public Health relating to acquired and genetic disease, to those who do not read English. If it proved useful, it could be translated into French and Portuguese.

He has developed a website www.sicklecell.md that is frequently visited, and which he uses to answer questions posed by enquirers from around the world. He also has a website cataloguing his

experience of AIDS on the African continent www.aidsinafrica.co.uk His e-mail address is konotey-ahulu@sicklecell.md or felix@konotey-ahulu.com

Professor Konotey-Ahulu is a Christian. He has written a Millennium Hymn of 7 verses, complete with melody, titled: "**All Time Pre- and Post 2000 AD**" which was sung by the University of Cape Coast Choir at the time of his Inaugural Address. He is married to *Rosemary*, and they have three children and ten grandchildren.

CURRICULUM VITAE

DR KONOTEY-AHULU, FELIX ISRAEL DOMENO

ADDRESSES AND FAMILY DETAILS

Residence: 17 Southsea Avenue, Watford, Herts, WD1 7NJ, England
(01923 252329) (24-hr ans-phone 01923 241370)
E-mail: konotey-ahulu@sicklecell.md

Work: **Consultant Physician at:**

10 Harley Street, London W1N 1AA, England
(Tel: 020 7467 8300; Fax: 020 7467 8312)

Dr Kwegyir Aggrey Professor of Genetic Epidemiology, Faculty of Science,
University of Cape Coast, Ghana

Cromwell Hospital, Cromwell Road, London SW5 0TU
(Tel: 0171 460 2000; Fax: 0171 460 5601 or 0171 460 5555)
[Mobile: 07876 682345] [konotey-ahulu@cromwell-hospital.co.uk]

Web-site: www.sicklecell.md | www.sicklecell.org.uk | www.aidsinafrica.co.uk

Address in Ghana: Faculty of Science, University of Cape Coast, Ghana.

Date of Birth: 12 July 1930

Place of Birth: Odumase Krobo, Ghana

Parents: Rev D A Konotey-Ahulu, Minister of the Presbyterian Church: Basel Mission Tradition (26 July 1902 - 13 Feb 1980) and Mrs Christiana M O Kontey-Ahulu (née Mate-Kole, 12 Dec 1906 - 6 Oct 1995)

Wife: Rosemary Konotey-Ahulu (née Moss, English, born 4 April 1931).

Children:

1. Dawid (20.8.63) [Wife Rachel, Children: James, Olivia, & Ben]
2. Carys (29.1.65) [Husband Anthony Brown, Children: Ella, Cramer, Jeremiah, Silas, & Joy]
3. Lydia (15.3.66) [Husband Zac Campbell, Children: Nana Afiyo & Sony]

EDUCATION

GOLD COAST (GHANA)

Infant School Age 4-5 years:	Achimota School Kindergarten} & Akropong Practice School }	1934-1935
Junior School Education Age 5-10 years:	Ada Presbyterian Junior Abokobi Presbyterian Junior Odumase Presbyterian Junior 1940	1936 1937-1939
Senior School Education Age 10-14 years:	Bana Hill Presbyterian Senior	1941-1944
Secondary School Education Age 14-19 years:	Odumase Presbyterian Secondary Achimota Secondary	1945-1946 1947-1949
Pre-Varsity Course Age 20-21 years:	Mfantsipim School	1950-1951
University Education Age 21-23 years:	University College, Gold Coast	1951-1953

ENGLAND

Pre-medical Age 23-24 years:	Norwood Technical College London Exempted First MB by passing Intermediate BSc London & A Levels (Physics, Chemistry, Zoology, Botany)	1953-1954
University Education Age 24-28 years:	University College London WC1 Second MB Examination	1954-1956
	Westminster Hospital School of Medicine Third MB Examination	1956-1959

Qualified MRCS (England) LRCP (London) & MB BS (London)

CLINICAL APPOINTMENTS LEADING UP TO POSTGRADUATE EDUCATION IN THE UK

May - June 1959 Redhill County Hospital - Locum House Physician
 June - Dec 1959 Bethnal Green Hospital London - House Physician
 Jan - June 1960 St Albans City Hospital - House Surgeon

(Date of UK Permanent Registration 7th June 1960 **GMC No: 1220221**)
 Medical Defence Union Number 7/143430

IN GHANA

July 1960 - Dec 1961 Korle Bu Hospital Accra - Medical Officer

Problems identified for future research during this period were:

- The high incidence of high blood pressure & renal failure in Ghana
- Hereditary Cold-Season Rheumatism (Sickle Cell Disease)

POSTGRADUATE EDUCATION IN THE UK

Liverpool School of Tropical Medicine	1962
Westminster Hospital	1962-1963
Hammersmith Postgraduate Hospital	1963
Royal Free Hospital	1964-1965
Christ's College Cambridge	1970-1971

Qualifications:

MB BS (Lond Univ)	May 1959
MRCS (Eng), LRCP (Lond)	April 1959
DTMH (Liverpool Univ)	April 1962
MRCP (Glasgow)	June 1964
MRCP (London)	Jan 1965
FRCP (Glasgow)	Oct 1971
MD (London Univ)	Feb 1972
FRCP (London)	June 1975
DSc(Hon. Cape Coast Univ)	April 2000

POST REGISTRATION APPOINTMENTS IN THE UK

Jan 1964 - April 1965	Royal Free Hospital, University of London - Research Fellow with Professor Sheila Sherlock's Department
Dec 1977 - Jan 1978	Royal Northern Hospital, London - Locum Consultant Physician [Dr D Geraint James MD FRCP]
Sept 1979 - Nov 1980	East Ham Memorial Hospital, London E7 - Consultant Physician, Locum Tenens
Dec 1980 - Aug 1982	St Albans City Hospital, Hertfordshire - Locum Consultant Physician in Medicine For The Elderly
Aug 1982 - May 1983	East Ham Memorial Hospital & Queen Mary's Hospital, Stratford, London E7 - Locum Consultant Physician
Oct 1979 to date	Consultant Physician at 10 Harley Street London W1N 1AA
Oct 1983 to date	Consultant Physician at The Cromwell Hospital London SW5

GHANAIAN APPOINTMENTS

July 1960 - Dec 1961	Korle Bu Hospital, Accra - Medical Officer
Jan 1966 - March 1973	University of Ghana Medical School, Korle Bu Teaching Hospital. - Lecturer and Senior Lecturer in Medicine and Therapeutics
March 1973 - July 1979	Ministry of Health, Korle Bu Teaching Hospital and Ridge Hospital, Accra as Physician Specialist, and from May 1974 as Director of the Ghana Institute of Clinical Genetics, Korle Bu
From 1980 onwards	VALCO Trust Visiting Research Consultant Physician to Ghana
From July 1993	Appointed "External Examiner for a period of three years for the MB ChB Final Part II Examination in Medicine & Therapeutics" at The University of Ghana Medical School, Korle Bu Teaching Hospital
From April 2000	Dr Kwegyir Aggrey, Distinguished Professor of Human Genetics. The University of Cape Coast, Ghana.

RESEARCH AND TRAINING EXPERIENCE

UK

End Stage Renal Failure

The Royal Free Hospital's Department of Professor (now Dame) Sheila Sherlock MD FRCP in the 1960's had two wings - one specialising in liver and the other in kidney problems. I was Research Fellow in the Kidney Team led by Dr Stanley Shaldon MA MD MRCP. We were the first to introduce *home dialysis* in Europe. My main research assignment was to evaluate "Effect of Periodic Dialysis on the Peripheral Neuropathy of End-Stage Renal Failure", (See *Publications* 4, 5, 7 & 8). Taught physical signs to London University Medical Students on the Introductory Course.

GHANA

Seeing that impeccable laboratory back up was needed for haemodialysis work, and this was lacking at Korle Bu in 1965, I switched my research interest from renal to the other major health problem I had identified before I left Ghana for postgraduate studies viz: **Sickle Cell Disease**.

I majored on the *clinical epidemiology* of the disease and in this I had the remarkable laboratory back up of Professor Bela Ringelmann MD Cand Sc (Hungarian Technical Assistance to Ghana) and Professor Hermann Lehmann FRS of Cambridge University. The bulk of my publications from 1965 and my book 'The Sickle Cell Disease Patient' (Macmillan 1991, Tetteh-A'Domeno Company) 1996 reflect my contribution in this field. At all times Professor S R A Dodu MD FRCP in whose Department I did this work was a great encouragement. I was involved in lecturing, and teaching Medical Students (undergraduate and postgraduate). Rural research work included WHO trials on the banks of the Volta Lake on the effect of Metrifonate, an anti-Schistosomiasis drug, on patients with concomitant hereditary erythrocytopathies, G6PD Deficiency and/or Abnormal Haemoglobin (See *Publications* No 56).

AIDS AND AFRICA

When AIDS burst upon the world, I realised it was a new phenomenon so I decided to tour African countries to see for myself what was happening, and to update my findings annually. The approach was purely *clinico-epidemiological*. My findings and conclusions are in *Publications* since 1987 (Nos 103 etc), and in my book **What is AIDS?** (1989, reprinted 1996).

PUBLICATIONS

Since 1965 my publications (some major, some minor) have covered *Haemodialysis, Sickle Cell Disease, Abnormal Haemoglobins, Ethics of Genetic Counselling, Ethics Relating to Advances in Molecular Biology, and AIDS*. Some have been Discoveries, some invited Book Reviews, some invited Editorials, and others first ever clinical descriptions eg, No xx *Lancet* Communication 1972 "Mental-Nerve Neuropathy: A Complication of Sickle-cell Crisis". In the following, "Publication", (marked in the list 1, 2, 3 etc) means it contains instructive information, and "Communication"(usually shorter and marked i, ii, iii, etc on the attached list) may also contain valuable information as in No xx mentioned above:

1965	6 Publications, 2 Communications
1966	2 Publications, 2 Communications
1967	2 Publications, 1 Communication
1968	3 Publications, 2 Communications
1969	7 Publications, 1 Communication
1970	7 Publications, 2 Communications
1971	9 Publications, 2 Communications
1972	5 Publications, 13 Communications
1973	8 Publications
1974	7 Publications
1975	9 Publications, 3 Communications
1976	3 Publications, 4 Communications
1977	11 Publications
1978	7 Publications
1979	2 Publications, 1 Communication
1980	3 Publications
1981	1 Publication
1982	2 Publications
1983	2 Publications, 1 Communication
1984	2 Publications
1985	3 Publications, 2 Communications
1986	2 Publications
1987	7 Publications
1988	2 Publications (2 Reprints)
1989	2 Publications, 1 Book
1990	5 Publications, 1 Communication
1991	1 Book , 2 Publications & 3 Communications (including Editorial)
1992	2 Publications, 2 Communications
1993	1 Communication
1994	2 Publications
1995	4 Publications (including 1 Booklet)
1996	3 Publications (Book reprints)
1997	7 Publications (1 Book Review)
1998	4 Publications
1999	3 Publications, 1 <i>in press</i>
2000	2 Publications
2001	8 Publications (1 book)

AWARDS, DISCOVERIES, & NOVEL CONCEPTS

- 1972 *Philadelphia, USA*
Invited to give the key-note address as one of the recipients of "Dr Martin Luther King Jr Foundation Award for outstanding research in Sickle Cell Anaemia". Also honoured were Linus Pauling, Hermann Lehmann, A C Allison, Roland Scott, J V Neel, G Serjeant, etc.
- 1974 *Accra, Ghana*
Awarded the *Gold Medal* of the Ghana Academy of Arts & Sciences for "the most outstanding contribution to knowledge in the Medical Sciences by a Ghanaian between 1952 and 1973".
- 1976 *London, UK*
Guinness Award for Scientific Achievement (GASA) in the Commonwealth "in recognition of his work in applying science to the service of the community".
- 1990 *New York, USA*
Presented with an Award on Oct 13 by The National Council of Ghanaian Associations Inc. "in recognition of distinguished and outstanding contributions to the African and the World Communities as a world renowned Medical Scholar, Practitioner and Researcher especially in the fight against AIDS and Sickle Cell."
- 1999 *Dakar, Senegal*
Presented by President Diouf with the 1998 Third World Academy of Sciences (TWAS) Award in Basic Medical Sciences "for his outstanding contributions to haemoglobinopathy notably ..., in first description of some 5 new physical signs in clinical medicine, invention of the 'Male Procreative Superiority Index' (MPSI) which shed light on aspects of African Anthropogenetics; in advocating ethical dimensions for genetic programmes, and highlighting public health measures as the best tool for long-term sickle-cell patient management".
- 2000 *Cape Coast, Ghana*
April 7th, 2000 - "In recognition of your
a) outstanding work in medicine, specially in the area of sickle cell disease;
b) pioneering work at the Ghana Medical School as a teacher; and
c) outstanding research and prolific publications in the area of medicine
the Council of the University of Cape Coast has decided to confer on you the degree of Doctor of Science (Honoris Causa) at a special Congregation of the University". April 8th Dr Kwegyir Aggey Distinguished Professor of Human Genetics in the University of Cape Coast, Ghana
- 2001 *Cape Coast, March / April, University of Cape Coast* visit
Accra, August / September – Institute of economic affairs.
London, October. Cromwell Hospital, preparation of MRCP Candidates (PACES)
- 2002 *Accra, March / April.* Guest preacher at Golden Easter House Party anniversary Ridge Church..
Accra. April 7th Preached at Accra Chapel, 35th Anniversary.
- 2002 *Accra, April 8th*
International Conference Hall. Lecture on Genetic counselling and family planning,

Discovered (with others)

- Haemoglobin Korle Bu - a new haemoglobin, which illustrates the first clear example of intra-genic cross over (*Publication No 11*)
- Haemoglobin Osu-Christiansborg - a new haemoglobin which when inherited together with haemoglobin S behaves like the sickle cell trait AS. (*Publication No 28*)
- A Ghanaian Adult Homozygous Persistence of Fetal Haemoglobin and Heterozygous for Elliptocytosis (*Publication No 23*).

First to Describe

- Sicklaemic Human Hygrometers (*Publication 1*)
- Parkinsonian tremor audible through the stethoscope (*Publications 10 & 13*)
- Mental Nerve Peripheral Neuropathy from sickle cell crisis (*Publications No xx*)
- Torrential epistaxis & facial skin ulceration in sickle cell anaemia (*Publication 2*) .
- Polygamy and high sickling rate (*Publication 21*)
- Male procreative superiority index. (*Publications 73 & 89*)
- Bilateral femoral head necrosis preventing procreation in sickle cell disease(*Publication x*)
- 'Gnathopathy' coined and quantified in sickle cell jaw protrusion (*Publications 19, 43, 49*)
- 'Tafracher', the Ghanaian apologetic word medically applied (*Publication 57*)
- The Three Ps - population, poverty, politics - in Health Care Delivery (*Publication 100*)
- Missing the wood for one genetic tree? (*Publication 101*)
- Clinical epidemiology vs seroepidemiology in Africa's AIDS problem (*Publication 103*)
- Extensive palatal echymosis from fellatio - caution with AIDS at large (*Publication 106*)
- Some thirty features of AIDS in Africa (*Publication 109*)
- An African on AIDS in Africa (*Publication 113*)
- Probing anecdotes in traditional African therapeutics (*Publication 132*)
- Valsalva manoeuvre causing a blindness in HbSC phenotype from ocular bleeds (*Publication 140*)
- The Human Genome Diversity Project: Cogitations of an African Native (*Publication 150*)
- [with others] Haemoglobin Korle Bu (*Publication 11*)
- [with others] Haemoglobin Osu-Christiansborg (*Publication 28*)

- [with Ringelhann] An entire family of 15 with no single normal Haemoglobin gene. (*Publication 14*)

Novel Concepts

- **Male Procreative Superiority Index (MPSI)**

The concept that the average adult African male makes a greater genetic contribution than the female to subsequent generations is foreign to Western geneticists who have omitted this from text books. The African female is limited by the menopause. I have quantified Ghanaian MPSI (*Publications 73 & 89*).

- **AIDS & Clinical Epidemiology versus Sero-Epidemiology**

"Study at the grassroots the regional variations in the epidemiology of AIDS in Africa, and tailor preventive measures accordingly." This concept of mine varies somewhat from the accepted wisdom of 'Dont be promiscuous!', 'Wear Condoms!', 'Get a Vaccine!'. My views are novel enough to have led to invitations to write Editorials and Comments for:

- The Royal Society of Medicine (*Publication 113*)
- AFRICA ANALYSIS (*Publication 123*)
- International Pharmacy Journal (*Publication 129*)
- Policy Review, Washington DC (*Publication 116*)
- Annales Universitaires des Sciences de la Santé (*Publication 109*)

- **Retrospective Phenotyping Several Generations Back**

I was the first to make use of polygamy to trace genetic traits backwards. I used the fact that any *healthy* West African man, with say 3 *healthy* wives, (as was the case of my paternal grandfather), must be carrying an abnormal haemoglobin trait if one or more of his children has "cold-season rheumatism" (Sickle Cell Disease). The mother of any such sick child *must* also be a trait carrier completely asymptomatic though she may be. I used this fact to trace the pathway of abnormal haemoglobins in my named forebears, generation by generation, to 1670 (*Publication 120 Chapter 2 "Sickle Cell Disease in Successive Ghanaian Generations for Three Centuries - Manya Krobo Tribe"*). This genetic epidemiological tool can be useful in African research into the hereditary aspects of Diabetes Mellitus, Hypertension, Gout, and Glaucoma in African populations.

Human Genome Diversity Project (HGDP) To determine the extent to which this can help some African Americans and others in the diaspora trace origins to West Africa.
To examine the relationship between left-handedness and stammering.

HONORARY APPOINTMENTS LECTURES, CONFERENCES, CONSULTANTSHIPS

WHO Consultant **1968, 1969, 1970, 1973** and in **1976** invited by Director General of WHO "to serve for a period of five years as a member of the WHO Expert Advisory Panel on Human Genetics". Appointment extended annually - latest extension was on 11 April 1984 "for a further period of one year".

1970 - 1971 Schofield Fellow Christ's College, Cambridge. (Working with Professor Hermann Lehmann, FRS) - Computer Data Analysis in the Dept of Human Ecology with Mr RG Carpenter.

1972 Appointed Annual Visiting Professor to Howard University, Washington DC and Honorary Consultant to their "Centre for Sickle Cell Disease".

1972 Sponsored by the National Foundation/March of Dimes for a lecture tour of "US University, Medical Schools and Centres" George Washington, Howard, Cornell, Rockefeller, Johns Hopkins, Yale, Georgetown, Illinois, Chicago, Tennessee and Indiana University at Indianapolis.

Feb 25 - March 1 1973 Geneva. Legal Workshop of 2nd International Conference on Voluntary Sterilisation. (Publications 42 & 42a).

June 1973 Zurich Switzerland. Consultation on Genetics and Quality of Life. Church and Society, Christian Medical Commission, World Council of Churches (Publication 52).

21 - 24 Jan 1974 Monrovia, Liberia. International Conference of Christian Physicians & Medical Students.

25 Feb - 22 Mar 1974 USA & Canada. Lectures at Howard University Washington DC, NIH Bethesda, University of Indiana at Indianapolis, Chicago Cook County Hospital and visit to Calgary, Canada.

16 - 20 April 1974 Abidjan, Ivory Coast. Conference of Association of West African College of Physicians.

27 - 29 June 1974 Washington DC. NIH National Symposium on Sickle Cell Disease (Publication 54).

15 - 18 Dec 1974 WHO Geneva. Meeting of Executive Group of International Congresses of Tropical Medicine and Malaria.

26 - 31 Jan 1975 Abidjan, Ivory Coast. International Symposium on Haemoglobinopathies (Publications xxvi - xxviii).

2 - 5 Feb 1975 Ibadan, Nigeria. Consultation on Medical Research in West Africa.

5 - 9 Nov 1975 Singapore. International Conference of Christian Physicians (Publication 67).

Dec 2 - 6 1975 Ibadan, Nigeria. Seminar on Sickle Cell and Reproduction - Reproductive Biomedicine Research & Training.

1976 Appointed Honorary Consultant to the Ghanaian Ministry of Health by Brigadier General Odartey-Wellington, Commissioner for Health.

27 - 29 April 1976 Hungary. Symposium on Medical Genetics (Publications xxix - xxxii).

Nov 22 1976 Edinburgh University. Invited to give The MacArthur Postgraduate Lecture on "The Sickling Phenomenon: Historical, Genetic, Clinical and Public Health Considerations".

1977 Addressed International haematology and physician congresses in USA, Turkey, UK, Brazil, Ivory Coast, Germany and gave lectures in Melbourne, Singapore, Hajduszoboslo (Hungary), Zaria, Lagos, Ibadan, Lusaka, Dares-Salaam, Cairo, Nottingham (Boots) and several postgraduate centres in the UK as part of GASA Award. Also Conference Washington DC - International Aspects of Sickle Cell Disease (Publications 79-81).

March 20 1980 University of Ghana Alumni Lecturer at Legon on "Genes and Society, And Society and Genes".

March 1980 Visiting Consultant to Ghana Institute of Clinical Genetics, Korle Bu Teaching Hospital, Accra.

Feb 1981 Visiting Consultant to Korle Bu Teaching Hospital, Accra.

Feb 1981 Ghana Medical Association Visiting Lecturer, Korle Bu Teaching Hospital on "The True Scope of Tropical Medicine".

September 1981 International Congress of Christian Medical Students (African Division), Nairobi, Lectures on Medical Ethics.

May 1982 Grand Rounds and lectures in University of George Washington Medical College, Johns Hopkins, National Institutes of Health Bethesda, Howard University, Cook County Hospital Chicago, and Association of African Physicians of North America (AAPNA) in Washington DC USA.

Feb-March 1983 Vellore/Bangalore, India. International Congress of Christian Medical Students (ICCMS). Lectures on Medical and Christian themes (*Publication 94*)

September 1983 Lusaka, Zambia. ICCMS - 2nd African Conference. Lectures on Medical and Christian themes (*Publication 94*).

Dec 1984 - Jan 1985 Visiting Consultant Physician to Korle Bu Teaching Hospital, Accra, Ghana.

May 1985 Edinburgh - Guest lecturer, Annual Conference of the Edinburgh Medical Missionary Society. "The Three P's - population, poverty, politics in Health Care Delivery in Developing Countries" (*Publication 100*).

May 1985 Chania, Crete, Greece. Invited Lecturer at The First International Symposium on the Role of Recombinant DNA in Genetics. "Missing the Wood for One Genetic Tree?" (*Publication 101*).

Feb - March 1987 African tour on AIDS. I went from London to Geneva (WHO), Congo Brazzaville (WHO), Kenya, Uganda, Rwanda (Kigali/Butare/Kigali), Tanzania, Zambia (Lusaka/Ndola/Lusaka), Zimbabwe, Kenya (Nairobi/Mombasa/Nairobi), Cameroon, Nigeria, Ghana, Ivory Coast, Liberia,

Sierra Leone, Gambia, Senegal, Ghana (13 towns and villages), Geneva and back to London. (*Publications* 103-109).

Feb - March 1988; Dec 1989 - Jan 1990 AIDS Research in Ghana. Consultant at Korle Bu Hospital Sickle Cell Clinic (*Publications* 111, 112 - 116).

March 1989 London - The African, Caribbean Medical Society Annual Conference - Guest Lecturer on AIDS and Africa.

Jan 1990 Accra - Ghana Academy of Arts & Sciences Guest Lecturer - AIDS and Africa.

Sept 1990 Nairobi, Kenya - Commonwealth Secretariat's Seminar on Appropriate Technology for AIDS Management in Africa. Lecture: AIDS in Africa - A Survey (*Publications* 118, 119).

October 1990 - Lectures in the USA on "The AIDS Crisis & Africa": Columbia University Public Lecture in Law School (Oct 8); Delaware State University (Oct 9); York University, Queens (Oct 10), Bank Directors of America, US Trust Co (Oct 12); Wake Forest University, North Carolina (Oct 15); Pace University New York City (Oct 16).

November 14 1990 London, St George's Hospital. Lecture presentation at Red Cell Club's 16th Meeting: Some clinical erythrocytopathies of West Africa.

March - April 1991 Accra, Ghana - Visiting Consultant, Korle Bu Teaching Hospital Sickle Cell Centre, and AIDS Update.

Oct 1991 Brazzaville, Congo - Chairman of WHO Africa Regional Expert Advisory Meeting on Haemoglobinopathy (*Publication* 127).

June 1, 15, Sept 7, Oct 19, Nov 2, Nov 30 1991 London. Sickle Cell Disease & Its Management. Organised Intensive One Day Course at 10 Harley Street W1 - Suitable for Doctors (PGEA approved), Nurses & Social Workers.

Nov 8 1991 London - Guest Lecturer of the 38th Meeting of International Association of Physicians for the Overseas Services - IAPOS: Sickle Cell Disease in an International Setting.

April 6 - 22 1992 Accra, Ghana - Ward Rounds and Clinics at Korle Bu Teaching Hospital. Domiciliary visits to D Family at Tema with 65 year old Mr NO Lamptey, oldest Sickle Cell Anaemia patient in Ghana - AIDS Update.

August 20 1992 London - Cromwell Hospital. AIDS Symposium for doctors and nurses with Dr Brian Gazzard and Dr David Hawkins. My topic: Africa's AIDS Crisis - A Personal Survey.

September 4-6 1992 Brazzaville, Congo - Invited by WHO Africa Regional Director Professor GL Monekosso to attend The First International Conference on Community Health in Africa (CISCA) (*Lancet* October 17 1992 p967).

October 8 1992 Copenhagen, Denmark - Invited to give lecture to Joint Meeting of Danish Society of Haematology and Danish Society of Tropical Medicine on The Sickle Cell Disease Patient.

May 22 1993 Stockholm, Sweden - Guest speaker at Symposium on AIDS in Africa jointly sponsored by The Gambian Organization, The International Association for Development in Africa (AIDA) and

the Ghana Union. Topics: AIDS in Africa Through African Eyes, and a Video Presentation 'Domiciliary Management of AIDS in a Ghanaian Rural Community'.

July 29 & 30 1993 London - I organised, with the Africa Centre, 'The First International Conference on The Achievement of Sickle Cell Disease Patients' held at the Royal Society of Medicine. My Keynote Address was "Sickle Cell Journey Through Tribulation to Success". Proceedings being edited by Professor Sam Charache MD of Johns Hopkins University Medical School, and myself.

August 6 1993 Accra, Ghana - Guest Speaker on 'Building New Institutions For the African World; Health Aspects' - Part of the National Council for Black Studies' 17th Annual & 1st International Conference July 30 - August 8.

October 24 - 1 November 1993 Accra, Ghana - External Examiner to the University of Ghana Medical School's Department of Medicine & Therapeutics.

February 9 - 11 1994 Nairobi, Kenya - Invited participant by Dr Davy Koech to 15th African Health Sciences Congress, Kenya Medical Research Institute. Gave 2 Lectures: 'Probing Traditional Therapeutic Anecdotes' - Publication 132], and 'Clinical Management of Disease in Man'. Did 'Ward Round with Dr George Gachihi at Clinical Research Centre. Held Discussions with Dr Kofi-Tsekpoh of the Traditional Medicines and Drugs Research Centre, KEMRI.

August 13 1994 Herts, UK - Invited Public Lecture at Aklowa Ga-Adangme Day-Out: The sickle Cell Disease Patient.

October 27 - Nov 9 1994 Accra. External Examiner, University of Ghana Medical School.

February 6 - 10 1995 Nairobi, Kenya - African Forum for Health Science Congress Lecture - 'Demystifying AIDS: the role of clinical epidemiology' [Paper for publication]. Invited to Editorial Board of newly launched *African Journal of Health Sciences*.

June 6 1995 Eton College, England. Invited Lecture - 'Religion, Law, & Morality'.

July 19 1995 Accra, Ghana. Second International Conference on the Achievements of sickle Cell Disease Patients. Lecture: 'Circumstances of sickle crises'.

July 20 1995 Accra, Ghana. Second International African Conference On Sickle Cell Disease. Lecture: History Of Sickle Cell disease Research In Africa.

September 15 1995 London. King's College Hospital Trust Deputy Manager invited me to on discuss the large costs of narcotic drugs in their Hospital's Sickle Cell Patient Management.

November 23 1995 London. King's College Hospital Grand Rounds: "Management of Sickle Cell Disease Patient".

March 4 - 11 1996 Accra, Ghana. External Examiner University of Ghana Medical School.

22 June 1996 London. Sickle Cell Society UK, Guest Speaker at annual General Meeting on "How to maximise the potential of the sickle Cell disease Patient".

September 12 1996 London. Homerton Hospital: "Management of Sickle Cell Disease Patient".

October 23 1996 London. Hackney Sickle Cell Society Lecture: "My Experience with The Sickle Cell Diseases" [Workshop, Old Ford Road, off Cambridge Heath Rd]

November 18 1996 London. Islington African Project: "How to succeed with Sickle Cell Disease".

March 6 1997 Manchester. Royal Infirmary Lectures: 1pm - "Comparing Management of Sickle Cell Disease Pain in West Africa and the United Kingdom". 5 pm - "Successful Sickle Cell Disease Patients".

March 29 1997 Accra, Ghana. Annual General Meeting and African Countries Sickle Cell Conference. "Disciplines Surrounding Sickle Cell Disease Patient - Supremacy of Nursing".

June 6 1998 Milton Keynes, Bedfordshire. Invited Guest Lecturer, Sickle Cell Association. The Ghana High Commissioner, His Excellency Mr James Aggrey-Orleans was present.

September 26 1998 London, Royal National Hotel. Ghana Nurses Association UK Inaugurated. Stress the crucial role of Nursing in Patient Care. The Ghana High Commissioner was present.

March 12 1999 Accra, Ghana. Lecture to Sickle Cell Association at Korle Bu, and see patients.

April 16 1999 London, Cromwell Hospital Nursing programme, Seminar Lecture: "Pain in patients with Sickle Cell disorders".

April 29 1999 London, Lecture at Cheam: "Some achievements of sickle cell disease patients".

May 14 1999 London, "AIDS in Africa: Obstacles to Health Care Delivery" (Lecture at the 53rd Meeting of the International Association of Physicians for Overseas Services. (Publication 152).

July 31 1999 London, Larteh Association Lecture "Potential of the Sickle Cell Disease Patient".

August 3 1999 London, Invited to BBC World Service, Bush House to comment on my *Lancet* publication "Averting a malaria disaster" (Publication 149).

September 25 1999 London, Merton Sickle Cell & Thalassaemia Group, Lecture Seminar.

November 7 1999 London, Presbyterian Church of Ghana. Invited to preach by Rev Peter Barker.

November 21 1999 Dakar, Senegal. Third World Academy of Sciences (TWAS) 1998 Award in Basic Med Sciences Lecture: "African Anthropogenetics and its Contribution to World Medicine".

November 22 1999 Dakar, Senegal. President Diouf of Senegal presents me with TWAS Award.

November 29 Accra, Ghana. Institute of Economic Affairs. Health Symposium - Lecture on "Some Aspects of Health Care Delivery in the UK". [Mr Mohamed drameh of Cromwell Hospital discusses The Artificial Kidney, and need for West Africa Kidney Centre]

December 3 - 5 Nairobi, Kenya. Regional Christian Medical Conference. Gave Keynote Address: "Trust in The LORD" on Saturday 4, and preached on Sunday 5 on invited topic "Roots and Fruits".

December 6 1999 Nairobi, Editorial work at *The African Journal of Health Sciences*, Kenya Medical Research Institute.

December 7 1999 Nairobi, Lecture to Doctors & Nursing Staff at The Nairobi Hospital on "The Person with Sickle Cell Disease".

December 8 1999 Nairobi, Gave Testimony at Kenya Christian Medical Fellowship Dinner.

April 7 & 8 2000 AD Cape Coast University, Ghana, awards Hon DSc Degree and confers on him Dr Kwegyir Aggey Distinguished Professor of Human Genetics in the University of Cape Coast, Ghana.

MEMBERSHIP OF CLUBS, SOCIETIES ETC

I was Editor of the Ghana Medical Journal from 1968 to 1973, and on the Editorial Advisory Committee of *TROPICAL DOCTOR* (until June 1982) and *MEDICINE DIGEST*. On Editorial Board of the new *African Journal of Health Sciences*, January 1994.

Member: British Medical Association
 Ghana Medical Association (& Overseas Representative of GMA)
 International Congress of Christian Physicians
 Christian Medical Fellowship UK
 Institute of Advanced Motorists
 National Council for Black Studies (Honorary 1993)

Fellow: Royal Society of Medicine
 Royal Society of Tropical Medicine and Hygiene
 Ghana Academy of Arts and Sciences
 International Society of Haematology
 Royal College of Physicians, Glasgow
 Royal College of Physicians, London
 West African College of Physicians
 Ghana Medical Association
 Third World academy of sciences (Trieste, Italy)

OPINION OF INTERNATIONAL COLLEAGUES

1972 *Professor Helen Ranney MD, New York*

"There is no single clinical experience in the United States comparable to that of Dr Konotey-Ahulu" (page 320 Sickle Cell Disease Eds Abramsom H, Bertles JF, Wethers Doris (CV Mosby Co St Louis).

1985 *Dr Max Wintrobe MD, Distinguished Professor of Medicine, University of Utah*

"Dr Konotey-Ahulu has contributed to our understanding of the clinical manifestations of sickle cell disease and other haemoglobinopathies in Africa" (Haematology, The Blossoming of a Science - A Story of Inspiration and Effort, pages 378 - 380)

1991 *Professor Roland Scott MD, Washington DC*

"This book is a meritorious addition to the medical literature and Dr Konotey-Ahulu has been disclosed as a seductive narrator as he tells the story of Sickle Cell Disease" (Foreword to The Sickle Cell Disease Patient 1991).

1991 *Professor Sir David Weatherall FRS Oxford University*

"`The Sickle Cell Disease Patient' is a fitting tribute to a physician who has done as much as anyone to improve facilities to deal with this condition in Africa." (*The Lancet* - Book Review June 29 1991, Vol 337 p 1590)

1992 *Professor D Geraint James MD FRCP Royal Free Hospital, London University*

"This thesaurus or treasure trove of information adds a new dimension to the world of sickle cell disease". (Book Review of `The Sickle Cell Disease Patient' in *Sarcoidosis* Volume 9, 1992 p 73.)

1993 *Professor A J Bellingham MB FRCP FRCPath, King's College Hosp., University of London*

"This remarkable study must represent the largest compilation and report of a single person's clinical experience ... For professionals working within the community and hospital I can recommend it as a marvellous feast to delve in". (*Tropical diseases Bulletin*, 1993, Vol 90 No. 3, p 164).

1997 *Professor S K Addae, PhD MD (Lond) PhD, University of Ghana Medical School*

"The most accomplished Ghanaian medical researcher-clinician is Dr FID Konotey-Ahulu. He has made, alone and in collaboration with others, more medical discoveries (probably more than any African, and matching -at least- the more prominent Western medical men) than any Ghanaian medical man in the country's history" (*The Evolution of Modern Medicine in a Developing Country: Ghana 1880 - 1960*. Durham Academic Press, Edingburgh/Cambridge, pages 451 - 452).

Regarding AIDS

1996 *Professor Thomas Mensah reviews `What is AIDS?' [Tetteh-A'Domeno Co. 1989/1996]*

"Dr Konotey-Ahulu brings to the task of writing about Acquired Immune Deficiency Syndrome (AIDS) an unusual combination of professional expertise, rare courage and integrity and supreme gift of language and style...encyclopaedic scholarship .. lucid prose"

ON-GOING WORK AND LEISURE

God helping me with good health, I hope to continue with the Ghana Institute of Clinical Genetics Motto: **S**ervice **E**ducation **R**esearch (in that order) **V**ital **I**n (every) **C**linical **E**ndeavour. With the help of adult patients suffering from sickle cell disease, we are together working out the effect of social pathology on the course of the disease. I intend to continue to help at the African grassroots especially with AIDS, as depicted in the video (*Publication 119*), and in this regard I am engaged in devising a novel technique for teaching African illiterates how to read and write African languages tonally so that they can be better taught health matters. To use the Kwegi Aggrey chair to improve genetic counselling and explore the potential of the Human Genome Diversity Project.

My leisure is my family, reading, playing the piano, and I take christian worship seriously. I composed the following *Millennium Carol* with Music and Tonic Solfa:

All Time Pre- and Post- AD 2000

Time was created, and initiated, by HIM;
d: d r m m d d r r d t d:-

Present Time is maintained, accurately, by HIM;
s: m: m f s: m d l l s fe s:-

Future Time will be commanded, and held, by HIM
l l t s d' d' d: d: l: s f m:-

Who, though God, became Incarnate at Bethlehem
r m f s l t d r m: r r d:-

Words & Melody © by Felix ID Konotey-Ahulu 12.12.1999

"All Time" by Felix ID Konotey-Ahulu 12.12.1999

PUBLICATIONS LIST

1965	6 Publications, 2 Communications
1966	2 Publications, 2 Communications
1967	2 Publications, 1 Communication
1968	3 Publications, 2 Communications
1969	7 Publications, 1 Communication
1970	7 Publications, 2 Communications
1971	9 Publications, 2 Communications
1972	5 Publications, 13 Communications
1973	8 Publications
1974	7 Publications
1975	9 Publications, 3 Communications
1976	3 Publications, 4 Communications
1977	11 Publications
1978	7 Publications
1979	2 Publications, 1 Communication
1980	3 Publications
1981	1 Publication
1982	2 Publications
1983	2 Publications, 1 Communication
1984	2 Publications
1985	3 Publications, 2 Communications
1986	2 Publications
1987	7 Publications
1988	2 Publications (2 Reprints)
1989	2 Publications, 1 Book
1990	5 Publications, 1 Communication
1991	1 Book , 5 Communications (including Editorial)
1992	2 Publications, 2 Communications
1993	1 Communication
1994	2 Publications
1995	2 Publications (1 Booklet)
1996	3 Publications (Reprints of Books)
1997	7 Publications
1998	4 Publications
1999	3 Publications, 1 <i>in press</i>
2000	1 Publications
2001	7 Publications

PUBLICATIONS

DR FID KONOTEY-AHULU

1965

1. Konotey-Ahulu FID. Sicklaemic human hygrometers. *Lancet* 1965; **1**: 1003-1004.
2. Konotey-Ahulu FID. Torrential epistaxis associated with symmetrical facial skin ulceration in sickle cell anaemia. *BMJ* 1965; **2**: 859-860.
3. Konotey-Ahulu FID and Kuma Eunice. Skeletal crumbling in sickle cell anaemia complicated by *Salmonella typhi* infection. *Brit J Clin Pract* 1965; **19**: 575-578.
4. Konotey-Ahulu FID, Baillod RA, Compty CM, Heron JR, Shaldon S and Thomas PK. Effect of periodic dialysis on the peripheral neuropathy of end-stage renal failure. *BMJ* 1965; **2**: 1212-1215.
5. Konotey-Ahulu FID and Anderson G. Treatment of hyperkalaemic cardiac arrest by timely haemodialysis. *Ghana Med J* 1965; **4**: 158-163.
6. Konotey-Ahulu FID and James Geraint. Sarcoidosis. *Ghana Med J* 1965; **4**: 67-71.

Minor Communications

- i. Konotey-Ahulu FID. Case of lightning burns. *BMJ* 1963; **1**: 1547.
- ii. Konotey-Ahulu FID. Varicose veins in pregnancy. *BMJ* 1965; **2**: 1065.

1966

7. Baillod RA, Compty CM, Illahi M, Konotey-Ahulu FID, Sevitt L and Shaldon S. Overnight haemodialysis in the home. *Proc Europ Dialysis Transpl Assoc* 1966; **2**: 99.
8. Heron JR, Konotey-Ahulu FID, Shaldon S and Thomas PK. Nerve conduction in chronic renal failure treated by dialysis. *Proc Europ Dialysis Transp Assoc* 1966; **2**: 138-140.

Minor Communications

- iii. Konotey-Ahulu FID. Epistaxis in sickle cell anaemia (12 References). *BMJ* 1966; **1**: 234.
- iv. Konotey-Ahulu FID. Hazards of mannitol infusion (as relates sickling). *Lancet* 1966; **2**: 591.

1967

9. Konotey-Ahulu FID, Frimpong M and Dodu SRA. Myiasis from *Cordylobia Anthropophaga*. *Ghana Med J* 1967; **6**: 10-12.
10. Konotey-Ahulu FID. Use of stethoscope in Parkinsonism - A new physical sign. *Ghana Med J* 1967; **6**: 131-133.

Minor Communications

- v. Dodu SRA, Lewis RA, Konotey-Ahulu FID, Ringelhann B, Boi-Doku FS, Christian EC and Asirifi Y. Inhibition of sickling by phenothiazine: In vitro studies. *Ghana Med J* 1967; **6**: 29.

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11. Konotey-Ahulu FID, Gallo E, Lehmann H and Ringelhann B. Haemoglobin Korle Bu ($\alpha_2\beta_2$ Aspartic Acid \rightarrow Asparagine), showing one of the two amino acid substitutions of Haemoglobin C Harlem. *J Med Genet* 1968; **5**: 107-111.
12. Ringelhann B, Dodu SRA, Konotey-Ahulu FID and Lehmann H. A survey for haemoglobin variants, thalassaemia and Glucose-6-Phosphate Dehydrogenase Deficiency in Northern Ghana. *Ghana Med J* 1968; **7**: 120-124.
13. Konotey-Ahulu FID. Hereditary qualitative and quantitative erythrocyte defects in Ghana: An historical and geographical survey. *Ghana Med J* 1968; **7**: 118-119 (Editorial 35 references).

Minor Communications

- vi. Konotey-Ahulu FID. Audible Parkinsonian tremor. *Lancet* 1968; **1**: 752.
- vii. Konotey-Ahulu FID. Sickle-cell disease and monocular blindness in Africans. *Lancet* 1968; **2**: 222.

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14. Konotey-Ahulu FID and Ringelhann B. Sickle-cell anaemia, sickle-cell thalassaemia, sickle-cell haemoglobin C disease and asymptomatic haemoglobin C thalassaemia in one Ghanaian family. *BMJ* 1969; **1**: 607-612.
15. Konotey-Ahulu FID. Patterns of clinical haemoglobinopathy. *E Afri Med J* 1969; **46**: 149-156.
16. Konotey-Ahulu FID. Personal View (Superstition and phenomena in Africa). *BMJ* 1969; **2**: 48.
17. Konotey-Ahulu FID. Personal View (Genetic counselling in sickle-cell disease). *BMJ* 1969; **3**: 235.

18. Konotey-Ahulu FID. Possible use of radioisotope scintigraphy in the early detection of bone, joint, and other lesions in sickle-cell disease. *Medical Radioisotope Scintigraphy (Proceedings of Salzburg Symposium IAEA Vienna) 1969; 2: 361-362 (Discussion).*
19. Konotey-Ahulu FID. The liver in sickle-cell disease. Clinical aspects. *Ghana Med J 1969; 8: 104-118.*
20. Bentsi-Enchill KK, Konotey-Ahulu FID. Thirteen children from twelve pregnancies in sickle-cell thalassaemia. *BMJ 1969; 3: 762.*

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- viii. Konotey-Ahulu FID. Anaesthetic deaths in sickle-cell traits. *Lancet 1969; 1: 267-268.*

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21. Konotey-Ahulu FID. Maintenance of high sickling rate in Africa: Role of polygamy. *J Trop Med Hyg 1970; 73: 19-21 (38 references).*
22. Ringelhann B, Konotey-Ahulu FID, Dodu SRA. Studies on Iron absorption, incorporation and distribution in sickle-cell anaemia, sickle-cell haemoglobin C disease and in Scintillation Counter. *J Clin Path 1970; 23: 127-134.*
23. Ringelhann B, Konotey-Ahulu FID, Lehmann H and Lorkin PA. A Ghanaian adult, Homozygous Persistence of Foetal Haemoglobin and Heterozygous for Elliptocytosis. *Acta Haematologica (Basel) 1970; 43: 100-110.*
24. Acquaye JK, Konotey-Ahulu FID and Tetteh Angelina. Epilepsia partialis continua Caused by a Left Frontal Lobe Abscess. *Ghana Med J 1970; 9: 141-142.*
25. Konotey-Ahulu FID. Toxoplasmosis. *Ghana Med J 1970; 9:67-68 (Editorial, 7 references).*
26. Ringelhann B, Konotey-Ahulu FID, Dodu SRA. A study of the sequestration of heat-damaged tagged red cells in splenomegalies of various origins in Ghana. *Trans Roy Soc Med Hyg 1970; 64: 107-117.*
27. Williams D and Konotey-Ahulu FID. Sickle-cell Disease: A matter of importance to all Ghanaians. *New Era March 1970; 2: No 5 Gate Page 6 folded pages.*

Minor Communications

- ix. Konotey-Ahulu FID. Haemolytic anaemia in pregnancy in Nigerians. *BMJ 1970; 2: 112.*
- x. Konotey-Ahulu FID. Hip disease in Africans. *Lancet 1970; 1: 999.*

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28. Konotey-Ahulu FID, Kinderlerer, JL Lehmann H and Ringelhann B. Haemoglobin Osu-Christiansborg. A new chain variant of Haemoglobin A (52 D3 Aspartic Acid --> Asparagine) in combination with Haemoglobin S. *Journal of Med Genet* 1971; **8**: 302-305.
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 - I. Genotype, Sex, Age, Rheumatism and Dactylitis Frequencies. *Ghana Med J* 1971; **10**: 241-260.
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Minor Communications

- xi. Konotey-Ahulu FID. Malaria and sickle-cell disease (Correspondence). *BMJ* 1971; **2**: 710-711.
- xii. Konotey-Ahulu FID. Medical research in developing countries (Editorial). *Ghana Med J* 1971; **10**: 71-74.

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 40. Konotey-Ahulu FID. History of Sickle cell Disease in Africa. Geographical Distribution and Population Dynamics of Haemoglobins S and C with special reference to West Africa. *Ghana Med J* 1972; **11**: 397-412.
 41. Konotey-Ahulu FID. Definition of Sickle cell Trait and Sickle cell Disease. *Ghana Med J* 1972; **11**:417-420.

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- xiii. Konotey-Ahulu FID. Sickle cell Trait and Altitude. *BMJ* 1972; **1**: 177-178.
- xiv. Owusu SK, Foli AK, Konotey-Ahulu FID and Janosi M. Frequency of Glucose-6-Phosphate Dehydrogenase Deficiency in Typhoid Fever in Ghana. *Lancet* 1972; **1**: 320.
- xv. Konotey-Ahulu FID. The Danfa Project (Editorial). *Ghana Med J* 1972; **11**: 1-2.
- xvi. Konotey-Ahulu FID. In vitro and In vivo Sickling (March - Editorial). *Ghana Med J* 1972; **11**: 2-3.
- xvii. Konotey-Ahulu FID. Vitamin A in Cholesterol Biosynthesis and Pathogenesis of Atherosclerosis (Editorial). *Ghana Med J* 1972; **11**: 3-4.
- xviii. Konotey-Ahulu FID. An International Sickle Cell Crisis (March - Editorial). *Ghana Med J* 1972; **11**: 4-8.
- xix. Konotey-Ahulu FID. Sickle cell and Altitude. *BMJ* 1972; **2**: 231-232.
- *xx. Konotey-Ahulu FID. Mental-Nerve Neuropathy: A Complication of Sickle-cell Crisis. *Lancet* 1972; **2**: 38. * Constitutes discovery of a new physical sign in Clinical Medicine.
- xxi. Konotey-Ahulu FID. The Tyranny of Fashion in Medical Journals. *Ghana Med J* 1972; **11**: 178-182.
- xxii. Konotey-Ahulu FID. Pathogenesis of sickle cell crisis in Ghana. *Ghana Med J* 1972; **11**: 304-306.
- xxiii. Konotey-Ahulu FID. Management of Patients with Sickle cell disease. *Lancet* 1972; **2**: 772.

- xxiv. Konotey-Ahulu FID. Detecting sickle haemoglobin. *BMJ* 1972; **4**: 239.
- xxv. Konotey-Ahulu FID. Glucose-6-Phosphate Dehydrogenase Deficiency and sickle-cell anaemia. *N Eng J Med* 1972; **287**: 887-88.

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- 42a. Konotey-Ahulu FID. Medical considerations for Legalizing Voluntary Sterilization: Sickle Cell Disease as a Case in Point. (Law and Population Programme) 1973; The Fletcher School of Law and Diplomacy, Tufts University, Medford, Massachusetts, USA.
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1974

49. Konotey-Ahulu FID. The Sickle-cell Diseases: Clinical manifestations including the Sickle Crisis. *Arch Inten Med* 1974; **133**: 611-619.
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1975

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[“But the most refreshing comments I have ever heard about vaccinating people against AIDS did not come from any university; they came from an ‘illiterate’ Ghanaian. During a tour of 16 sub-Saharan African countries to acquaint myself with AIDS on the continent I ended up in Ghana holding discussions with a traditional chief who was quite aware of the chief cause of AIDS in his area. When told about a vaccine for AIDS this chief gaped with incredulity, and asked: ‘You mean they are going to prick us with needles so we can do what we like?’”]
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[“We so despise malaria that we find it difficult to believe that this mosquito-borne disease killed (and still kills) more Africans, usually children, than any other illness.”]
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[“The tragic death of a Ghanaian in London of complications arising from *falciparum malaria* (as reported in *West Africa* of Feb 24) was further proof of the fact that we must seek to take preventive measures..”]
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[“Another threat to public health poses itself, one with the ability to spread at frightening speed. Meningitis has been in the news recently both in England and in several West African countries. Two students died at the University of Wales, and this became headline news. In Ghana vast quantities of vaccines have had to be rushed from abroad to save thousands from dying because of a meningitis epidemic marching southwards from the Upper and Northern regions of the country. What is meningitis, and why does it produce such fear?...”]
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[In response to the article of EM Einterz and ME Bates “Fever in Africa: do patients know when they are hot?” *Lancet* **350**: 781 Sept 13 1997]
142. Konotey-Ahulu FID. Book Review of SK Addae’s *The Evolution of Modern Medicine in a Developing Country: Ghana 1880 - 1960*. Durham: Durham Academic Press 1997.

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Health Sciences 1998; **5**: 47

[Commenting on article of Sally Davies and Lola Oni (*BMJ* **315**: 656-60) - "what I feel is more important in the day to day management of patients with a view to keeping them out of hospital, is clinical epidemiology which includes the circumstances of crises. Two examples suffice to illustrate what I mean: ... I fear Davies and Oni's statement that 'The Central Middlesex management protocol uses morphine infusions' will make morphine the accepted drug for sickle crisis management. The consequences of such an approach are dire, especially when some UK hospitals are already making *diamorphine* their first choice".]

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145. Konotey-Ahulu FID. Opiates for sickle-cell crisis? *Lancet* 1998; **351**: 1438. ["The question that puzzles me is: why do west African and West Indian patients with sickle-cell disease who did without morphine in their countries have to be given morphine pumps during sickle-cell crises when they come to the UK?"]
146. Konotey-Ahulu FID. Opiates for sickle-cell crisis. *Lancet* 1998; **352**: 651-652. [In response to David Bevan's criticism (in *Lancet* 1998; **351**: page 1965) of white physicians who agree with Dr Konotey-Ahulu that opiates have created addicts in their hospital - "When I say routine opiates for sickle crisis are not the way to bring out these patients' best potential in the long term I am glad to hear white physicians say the same...White physicians who, at the risk of being misunderstood by Bevan, voice their displeasure at what they see happening on their wards deserve commendation, not condemnation."]

1999

147. Konotey-Ahulu FID. Supreme worth of clinical epidemiology in Africa: bancroftian filariasis is just one case in point. *African Journal of Health Sciences* 1999; **6**: 1-2. [Invited Editorial on Dr J O Gyapong's article: Clinical epidemiology and prospects for control of lymphatic filariasis. *African Journal of Health Sciences* 1999; **6**: 3-8. "Clinical epidemiology is going to be the discipline *par excellence* of the next century, if not the millenium. Coming as it does from one who has spent decades in Clinical Medicine and Therapeutics, this is a bold statement...Even with the current AIDS problem, I remain convinced that clinical epidemiology is the answer (FIDK-A 1987, *Brit Med J* **Vol 294**: pp 1593-94). Vaccines have achieved much this century, but to 'wait for WHO to give us vaccines' while we neglect ourselves and our environment is wholly irresponsible".]
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[In response to an Editorial in *The Times* (London) on the 'Chimpanzee and AIDS' story: 'Sir, "Could the reason why humans sicken but not chimpanzees lie in the small genetic differences between the two?" (*Times Editorial*, February 1, 1999). But could it rather not be because the whole scientific reasoning (*Times Leader*, February 1) is as flawed as those which not so long ago had similar media blitz?] or the full communication click here*.

149. Konotey-Ahulu FID. Averting a malaria disaster. *Lancet* 1999; **354**: 258.
[In response to the article in *The Lancet* 1999, **Vol 353**: pp 1965-67 of Professor NJ White and 16 co-authors who argued that in order to avert a malaria disaster, the highly successful Chinese drug Artemisinin should be compounded with other anti-malarial drugs to prevent drug resistance.]
150. Konotey-Ahulu FID. The Human Genome Diversity Project: Cogitations of An African Native. *Politics and the Life Sciences (PLS)* 1999, **Vol 18**: No 2, pp 317-322.
[Invited Commentary on Professor David Resnik's article: The Human Genome Diversity Project: Ethical Problems and Solutions.] Lake Superior State University USA..

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151. Konotey-Ahulu FID. Black peoples red faces and AIDS prevention. *Lancet* 2000; **355** : 1559.
152. Konotey-Ahulu FID. Public Health in less developed countries. *Lancet*. 2000; **356**: 1769-1770 ["Sarah Macfarlane and colleagues (*Lancet* 2000;356:841-46) and Robert Beaglehole (*Lancet* 2000;356:787-88) omit any mention of the genetic disease burden that will loom ever bigger when AIDS disappears and Malaria is rolled back"]

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153. Konotey-Ahulu FID. Medical Themes, The Inheritance of Sickle Cell Disease. [New African - January 2001].
154. Konotey-Ahulu FID. Medical Themes, The Person with Sickle Cell Disease. [New African - March 2001].
155. Konotey-Ahulu FID. Medical Themes, The Teenager with Sickle Cell. New African - June 2001].
156. Konotey-Ahulu FID. Medical Themes, The Adult with Sickle Cell Disease. [New African - September 2001].

157. Konotey-Ahulu FID. A non-sense mutation and protection from severe malaria. *Lancet* 2001;358:927-928..
158. Konotey-Ahulu FID. Mother Tongue: The Tadka Phonation Technique for speaking an African Tonal Language - Krobo/Dangme/Ga of South-East Ghana. Tetteh-A'Domenu Company, Watford, 2001. UK. [ISBN 0-9515442-4-1]
[Produced to facilitate tribal health education at the grass-roots level]