# OHENE K. OPARE-SEM B.Sc., B.Med.Sci., MB.Ch.B., FACP, FRCP

**PERSONAL INFORMATION:**

Date of Birth: 7 June, 1961

Place of Birth: Agormanya, Ghana

Citizenship: Ghana

Home Telephone: 233-32-2022534

Professional Address & Telephone: Department of Medicine

Kwame Nkrumah University of Science

and Technology, Kumasi, Ghana

233-32-2022302

**PRESENT ACADEMIC RANK:**

08/18 – date Professor

Department of Medicine,

School of Medical Sciences,

Consultant Physician

Haematology/Oncology

Komfo Anokye Teaching Hospital,

Kumasi, Ghana

**EDUCATION:**

10/80 – 07/83 University of Science & Technology,

School of Medical Sciences, Ghana

Bachelor of Science ( Human Biology)

10/84 – 10/88 University of Science & Technology,

School of Medical Sciences, Ghana

Bachelor of Medicine and Surgery

10/85 - 07/86 University of Nottingham, United Kingdom

Bachelor of Medical Sciences

(Physiology and Pharmacology)

07/91 – 06/94 Columbia University College of Physician

and Surgeons, New York,

United States of America

Internal Medicine Residency

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07/94- 06/94 University of Medicine and Dentistry

Cancer Institute of New Jersey

New Brunswick, United States of America

Fellowship, Haematology and Oncology

05/06-06/06 Advanced Leadership Training, Hagai Institute

Maui, Hawaii. USA

**CERTIFICATION:**

02/91 United States Medical Licensure Examination

#442-149-1

12/93 United States Federal Licensing Board

08/94 Diplomate, American Board of Internal

Medicine

# 157682

08/94 Member, American College of Physicians

# O0082428

11/97 Diplomate, American Subspecialty Board of

Hematology

# 157682

6/00 Fellow, American College of Physicians

#O0082428

7/05 Fellow, Ghana College of Physicians and Surgeons

5/08 Fellow, Royal College of Physicians

**MEDICAL LICENSURE:**

10/88 Republic of Ghana

#MDC/RN/02584

09/94 State of New Jersey, U.S.A.

#61516

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**HONOURS AND AWARDS:**

07/86 Association of Commonwealth Universities

Scholar

10/88 Gastroenterology Society Conference, Midland, U.K.

Best Poster Presentation Award

11/96 Melvyn H. Motolinsky Haematology

Fellowship,USA

**PREVIOUS POSITIONS:**

10/88 – 05/91 Komfo Anokye Teaching Hospital, Ghana

House Officer/Medical Officer

09/89 – 05/91 School of Medical Sciences, University of Science

and Technology, Ghana

Assistant Lecturer

School of Nursing , Kumasi, Ghana

Part- time Lecturer

07/91 – 06/94 Columbia University College of Physicians and

Surgeons at Harlem Hospital Centre, New York,

USA, Resident Physician

07/94 – 06/97 Robert Wood Johnson University Hospital/Cancer

Institute of New Jersey,New Brunswick,U.S.A.

Fellow, Divisions of Haematology and Oncology

**TEACHING:**

09/89 – 05/91 School of Medical Sciences, University of Science

and Technology, Ghana

Physiology

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09/91 – 07/94 Columbia University Medical School, New York,

USA,Clinical Clerkship, Internal Medicine

08/95 – 07/97 Robert Wood Johnson Medical School, University of

Medicine and Dentistry of New Jersey, New Brunswick

Clinical Haematology/Oncology

01/98 - School of Medical Sciences, Kwame Nkrumah

University of Science and Technology, Ghana

Clinical Clerkship

Undergraduate/Postgraduate Internal Medicine

**ADMINISTRATIVE RESPONSIBILITIES:**

07/96 – 06/97 Chief Fellow, Divisions of Haematology and Oncology

Robert Wood Johnson University Hospital

New Brunswick, U.S.A.

03/99 - Institute of Land Resources Management Board

School of Medical Sciences Board

Kwame Nkrumah University of Science and

Technology

05/99-09/02 Examinations Officer, Department of Medicine

School of Medical Sciences

Kwame Nkrumah University of Science and

Technology

09/99- Supervising committee, Blood Transfusion Services

Komfo Anokye Teaching Hospital, Ghana

01/01 - Planning committee, Ghana Trade Fair Participation,

Kwame Nkrumah University of Science and

Technology

10/02- 9/05 Clinical Examinations Officer, School of Medical Sciences

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09/01- Education and Curriculum Committee, School of

Medical Sciences, Kwame Nkrumah University of

Science and Technology

01/02-03 Ethics Committee, School of Medical Sciences

10/07 – 9/09 Head, Dept. of Medicine

**PROFESSIONAL MEMBERSHIPS;**

06/97 American Society of Internal Medicine

04/98 Ghana Medical Association

**MEETING PRESENTATIONS:**

10/88 Gastroenterology Society Conference,

Birmingham, United Kingdom

Intraluminal measurement of pH using

radiotelemetry

03/97 New Jersey Society of Clinical Laboratory Science/

New Jersey Clinical Laboratory Management Assoc

Joint Spring Seminar, Woodbridge, New Jersey

Techniques in the Investigation of Coagulopathic

Disorders

05/99 International Symposium on HIV, Leukemia, and

Opportunistic Cancers, Marrakech, Morocco

Determinants of HTLV-1 Disease

06/00 26th Congress of the International Society of Blood

Transfusion, Vienna

Screening for viral markers by EIA .

08/00 Congress of Society of Private Medical Practitioners

Kumasi, Ghana

HIV/AIDS – Current management trends

10/00 Symposium on Chronic Hepatitis (Smith Kline B)

Hepatitis B vaccine- a novel approach

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12/00 Congress of the American Society of Hematology

Los Angeles

The Frequent 677C>T polmorphism of methylene-

Tetrahydrofolate reductase gene, suggested to be

protective against adult lymphatic leukemia and to

confer a mild risk of thrombosis probably stems from

a common founder

06/01 Hoffman La Roche Symposium on Xenical, Kumasi

The Morbidity of Obesity

11/01 Congress of Ghana Medical Association, Koforidua

HIV- Beyond the Guidelines

12/01 Harvard AIDS Institute/AIDS Ally Symposium,Kumasi

CNS complications/Opportunistic Cancers in HIV/AIDS

09/02 3rdCongress of African Blood Transfusion, Tunis

09/04 Inaugural presentation of LAPDAP anti-malarial. Accra

**INTRAMURAL PRESENTATIONS:**

08/94 Robert Wood Johnson University Hospital.

Haematology Grand Rounds

The Thalassaemias- An Update

03/95 Robert Wood Johnson University Hospital

Haematology Grand Rounds

New Approaches in Polycythaemia Vera

05/96 Princeton Medical Center

Tumour Board

Germ Cell Tumours

04/97 Cancer Institute of New Jersey

Oncology Grand Rounds

Leucocyte Adhesion Molecules

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06/97 Robert Wood Johnson University

Pathology Grand Rounds

Platelet Function Testing Using Flow Cytometry

Anti-Cardiolipin Antibody Syndrome- Pathophysiology

05/98 Komfo Anokye Teaching Hospital

Pathology Grand Rounds

Cancer Trends in Ashanti

11/01 Komfo Anokye Teaching Hospital

Surgery Round Table Conference

Chemomodulation

**COMMUNITY ACTIVITIES:**

Oasis Christian Academy, Kumasi

Parent-Teacher Association Executive

Upper Room Credit Union, Kumasi

Chairman, Board of Directors

Ashanti Goldfields, Obuasi

Medical Board

Mount Zion City of Refuge (Rehabilitation NGO), Wa

Board of Advisers

**RESEARCH:**

**Opare-Sem O**, Bedu-Addo George, Acheampong J.W.

Prophylactic Oral Urea(Carbamide) in Sickle-cell Disease.

Oct. 1999

**Opare-Sem O.,** Owusu-Ofori S., Allain J-P.

Comparison of Hepantivir alone and Hepantivir associated

with HBV vaccine in the treatment of severe chronic

hepatitis B.

May 2001

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Page Eight

**Opare-Sem O.,** Acheampong J.W., Frohlich E., Heinz W.,

Braun R. Ultrasound features of Schistosomal Syndromes

In West Africa.

March 2001

Peterhofsen E., Doescher A., **Opare-Sem O**., Horstmann R.

Detection and analysis of genetic variations in human blood

group genes in samples originating from African donors.

April 2004

**Opare-Sem O**., Sarkodie F., Allain J-P. Epidemiology of

Hepatits C virus in severe chronic hepatitis and hepatocelluar

carcinoma in Kumasi, Ghana.

Sept.2001

Allain J-P, Piccolella E**, Opare-Sem O**. Characterisation of

HCV infection in Ghana and development of an HVR1-based

Lipopeptide therapeutic vaccine for West Africa.

Sept. 2001

Allain J-P, **Opare-Sem O.,** Candotti D., Piccolella E. Design ,

preparation and characterisation of an HCV therapeutic vaccine

May 2002

Nsiah K**., Opare-Sem O**.,Addo E. Chemical markers associated

with Strokes.

Oct. 2003

Allain J-P, Candotti D., Sarkodie F**., Opare-Sem O**., Molecular

epidemiology of HIV-1 A/G intersubtype recombinant in

Kumasi, Ghana.

June 2004

**Opare-Sem O.,** Sarkodie F., Bedu-Addo G., Allain J-P.

Assessment of the HBV DNA screening in blood donors: a

comparison in sensitivity and efficacy between individual

donations and pools of plasma.

Feb. 2006

Parker D., Allain J-P., Owusu-Ofori S., **Opare-Sem O.**

Investigation into the immune response to hepatitis B vaccine

Sept. 2004

Allain J-P., Owusu-Ofori S., **Opare-Sem O.**

Epidemiology, molecular characterization and infectivity of

Occult hepatitis B virus infection.

March 2006

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**PUBLICATIONS:**

|  |  |
| --- | --- |
| 1 | **Opare-Sem K**.  Validation and Measurement of colonic pH  Profile in Man. (Thesis) Nottingham, U.K. 1986 |
| 2 | Evans D., **Opare-Sem K**., Kotoh S., Amon Kotei D.  Is Colorectal Cancer Risk increasing in Ghana.  GMJ 1988;22:8-16 |
| 3 | **Opare-Sem K**.  Peak Expiratory Flow Rates in Miners at the Ashanti Goldfields.  (Thesis) Kumasi, Ghana, 1988. |
| 4 | Roberts M., **Opare-Sem K**., Acheampong J.  The Diurnal Variation of Stroke in Ghana.  Tropical Doctor 1994;24:155-15 |
| 5 | **Opare-Sem O.K.,** Sarkodie Y. Determinants of HTLV-1Disease.  20th Symposium of the International Association for Comparative Research on Leukemia and Related Diseases  Marrakech 1999; Abstract 7 |
| 6 | Sarkodie F., Adarkwa M., Bedu-Addo G., **Opare-Sem O**., Acheampong JW, Allain JP.  Screening for Viral markers by EIA In Volunteer and Replacement Donors in Kumasi, Ghana.  International Society of Blood Transfusion Congress, Vienna 2000  Vox Sanguinis 2000;78 suppl |
| 7 | Rosenberg N., Zivelin A., Murata M.,**Opare-Sem** O.K.,Kornbrot N, Ifrah A., Seligsohn U  The Frequent 677C>Polymerase of Methylene Tetrahydrofolate Reductase Gene, suggested to be protective against Adult Lymphatic Leukemia and to confer a mild risk of thrombosis, probably stems from a common founder.  American Society of Hematology Congress, Los Angeles 2000  Blood 2000;41suppl |
| 8 | Rosenberg N., Murata M., Ikeda Y**., Opare-Sem O**., Zivelin A.,Geffen E., Seligsohn U. The Frequent 5, 10-Methylene Tetrahydrofolate Reductase C677T Polymorphism Is Associated With a Common Haplotype in Whites, Japanese, and Africans.  American Journal of Human Genetics 2002; 70: 758-762 |
| 9 | **Opare-Sem O**., Owusu-Ofori S., Allain J-P.,  A novel approach to blood safety: Pre-donation screening of blood  donors for viral markers.(Editorial)  Africa Sanguine, 2002;5:12-16. |

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| 10 | Owusu-Ofori S., Sarkodie F., Anokwa M., **Opare-Sem O**., Allain J-P  Pre-donation Screening of Blood donors: A feasible and economical  Solution in high prevalence areas.  4thCongres Arabe et 3rd Congres African de Transfusion Sanguine.  Tunis.2002 |
| 11 | Allain J-P.,Owusu-Ofori S.,**Opare-Sem O**., Lara-Medina A.  Cost-effectiveness of pre-donation screening of blood donors for HBV, HIV,and HCV.  4thCongres Arabe et 3rd Congres African de Transfusion Sanguine.  Tunis.2002 |
| 12 | **Opare-Sem O.** Platelet Function Testing: a new approach using Flow  cytometry. |
| 13 | Allain J-P., Candotti D., Soldan K., Sarkodie F., Phelps B., Giachetti C., Yeboah F., Shyamala V., Anokwa M., Owusu-Ofori S., **Opare-Sem O.**  The risk of hepatitis B virus infection by transfusion in Kumasi, Ghana.  BLOOD, 2003;101:2419-2425. |
| 14 | Yeboah F., **Opare-Sem O.,** Nsiah Asare K.,  Telemedicine: Impact and limitations in modern medical practice.  Journal of Science and Technology, 2003;23:26-28. |
| 15 | Fischetti L., **Opare-Sem O.**, Candotti D., Lee H., Allain J-P.,  Higher Viral load may explain the dominance of CRF02\_AG in the Molecular epidemiology of HIV in Ghana.  AIDS, 2004;18:1208-1210. |
| 16 | Fischetti L., **Opare-Sem O.,** Candotti D., Sarkodie F., Lee H., Allain J-P  Molecular epidemiology of HIV in Ghana: Dominance of CRF02\_AG.  Journal of Medical Virology, 2004;00:1-9. |
| 17 | Allain J-P., Sarkodie F., Candotti D., **Opare-Sem O.**  Lack of correlation between hepatitis B surface antigen and hepatitis B virus DNA levels in blood donors.  TRANSFUSION, 2005; 45:1039-1040. |

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| 18 | **Opare-Sem O**., Candotti D., Yeboah F., Sarkodie F. Anokwa M., Allain J-P.  Treatment of chronic hepatitis B infection with a plant extract Containing securinine.  Congress of Institute of Biomedical Science.  London. 2005 |
| 19 | Candotti D., **Opare-Sem O**., Rezvan H., Sarkodie F., Allain J-P  Molecular and serological characterization of hepatitis B virus in deferred  Ghanaian blood donors with and without elevated alanine aminotransferase  Journal of Viral Hepatitis, 2006; 13:715-72 |
| 20 | Stevens E., Bates I., Bedu-Addo G., Ekem I., Dei Y., **Opare-Sem** Owen R.  Investigation of lymphoproliferative disorders in Ghana, West Africa.  British Society of Haematology 46th Annual Scientific Meeting  Incorporating The Netherlands and British Haematology and  Thrombosis Societies. Edingburgh 2006 |
| 21 | Chengyao Li., Collini P., Danso K., Owusu-Ofori S., Dompreh A.,Candotti D., **Opare-Sem O.,** Allain J-P.  GB virus C and HIV-1 RNA load in single virus and co-infected West African individuals.  AIDS, 2006; 20:379-386 |
| 22 | Nsiah K., **Opare-Sem O**., Odame R.  The characteristics of some stroke patients at the Komfo Anokye  Teaching Hospital.  1st International Conference on Hypertension, Lipids, Diabetes and  Stroke Prevention.  Paris. 2006 |

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| 23 | M.T. Agyei-Frimpong, E. Nkansah, G. Bedu-Addo, and **K. Opare-Sem**.  Incidence of Paraproteinaemia in Hyperproteinaemic Patients Visiting the Chemical Pathology Unit of the Komfo Anokye Teaching Hospital.  Journal of Medical Science, 2008; 8 (4): 378-383 |
| 24 | L.I. Compston, Francis Sarkodie, Chengyao Li, Daniel Candotti, **Ohene Opare-Sem**, Jean-Pierre Allain.  Multiplex real-time PCR for the detection and quantification of latent and persistent viral genomes in cellular or plasma blood fractions.  Journal of Virological Methods, 2008;151(1):47-54 |
| 25 | Lara Isobel Compston, Chengyao Li, Francis Sarkodie, Shirley Owusu-Ofori, **Ohene Opare-Sem**, Jean-Pierre Allain.  Prevalence of persistent and latent viruses in untreated patients infected with HIV-1 from Ghana, West Africa.  Journal of Medical Virology,81(11),1860-1868 |
| 26 | Jean-Pierre Allain, **Ohene Opare-Sem**, Franis Sarkodie, Rabiatu Rahman, and Shirley Owusu-Ofori.  Deferred donor care in a regional hospital blood center in Ghana.  TRANSFUSION 2009;49:669-675 |
| 27 | Elizabeth Parkins, Roger G. Owen, George Bedu-Addo, **Ohene Opare-Sem**, Yvonne Adomakoh, Imelda Bates.  UK-based real-time lymphoproliferative disorder service to improve the management of patients in Ghana.  Journal of Haematopathology, 2009;2(3):143-149 |
| 28 | R.M.K. Adanu, Y. Adu-Sarkodie, **O. Opare-Sem**, K. Nkyerkyer, P. Donkor, A. Lawson, N.C. Engleberg.  Electronic learning and Open Educational Resources in the Health Sciences in Ghana.  Ghana Medical Journal,2010;44(4):149-162 |
| 29 | Nadia Tagoe, Peter Donkor, Richard Adanu, **Ohene Opare-Sem**, N. Cary Engleberg, Aaron Lawson.  Beyond the first steps: Sustaining Health OER Initiatives in Ghana.  Proceedings Barcelona Open Ed,2010 <http://hdl.handle.net/10609/4849> |
| 30 | **Ohene Opare-Sem**, Cary N. Engleberg.  Automated Blood Counts in Clinical Practice.  KNUST Open Educational Resources,2009<knust.edu.gh/oer> |
| 31 | J.K. Kwarteng, L. Owusu, M. Afihene, E. Micah, **Ohene Opare-Sem**,  F.K.N. Arthur.  Lowered Serum Triglyceride Levels among chronic hepatitis B-infected patients in Ghana.  Journal of Science and Technology,2012;32(3):1-10 |
| 32 | Fereydoun F. Ala, Jean-Pierre Allain, Imelda Bates,James Brandful, Helen Lee,..  **Ohene Opare-Sem**,..Silvano Wendel.  External Financial Aid to Blood Transfusion Services in Sub-Saharan Africa: A Need for Refection.  PLOS Med,2012;9(9)e1001309 |
| 33 | Jennifer Layden, Richard Phillips, **Ohene Opare-Sem**, Adegboyega Akere, Babatunde Salako, Konrad Nelson, Lara Dugas, Amy Luke, Bamidele O. Tayo, and Richard S. Cooper.  Hepatitis C in Sub-Saharan Africa: Urgent Need for Attention  Open Forum Infectious Dis 2014;1:2 |
| 34 | **Ohene Opare-Sem,** George Bedu-Addo, Patrick Karikari, Peter Boateng, Francis Sarkodie, Rabinatu Rahman, Kwame Asenso Mensah, Baffour Awuah, Alex Osei Akoto, S.A. Abdul Munin,Peter Mensah Acheampong,Jean-Pierre Allain, and Shirley Owusu-Ofori  Fourteen-year experience of a tertiary hospital transfusion committee in West Africa  TRANSFUSION 2014;54(11):2852-62 |
| 35 | Jennifer Leyden, Richard Phillips, Shirley Owusu-Ofori, Fred Stepfen Sarfo, Lara Dugas, Kenrad Nelson, **Ohene Opare-Sem,** Amy Luke, David Shoham,Joseph Forbi, Yuru Khudyakov, and Richard Cooper  High Frequency of Active HCV Infection among Sero-positive Cases in West Africa  Clinical Infectious Disease 2014:60(7):1033-41 |
| 36 | Jennifer Leyden, Richard Phillips, Shirley Owusu-Ofori, Fred Stepfen Sarfo, Lara Dugas, Kenrad Nelson, **Ohene Opare-Sem,** Stephanie Kliethermes**,** Amy Luke, David Shoham,Joseph Forbi, and Richard Cooper  High Rates of HCV Active Infection in a Blood Bank Study in Ghana, West Africa  HEPATOLOGY 2014:60(1):1512 |
| 37 | Jennifer Leyden, Richard Phillips, Shirley Owusu-Ofori, Fred Stepfen Sarfo, Lara Dugas, Kenrad Nelson, **Ohene Opare-Sem,** Stephanie Kliethermes**,** Amy Luke, David Shoham,Joseph Forbi, and Richard Cooper  Evidence for Multiple Transmission Pathways and Geographic Variation of HCV Infection in Ghana, West Africa  HEPATOLOGY 2014:60(1);1540 |