

**CURRICULUM VITAE FOR DR.EMMANUEL UDEMEZUE  
ONYEKWELU.M.D.,F.R.C.E.M.,F.R.S.H.,F.R.S.B., F.R.S.P.H.,F.R.S.A. To COMPLEMENT  
HIS APPPLICATION FOR THE ACADEMIC MEMBERSHIP OF THE ATHENS INSTITUTE  
OF EDUCATION AND RESEARCH.**



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**Dates Education ,Qualifications, TRAINING , CREDENTIALS&Affiliations.**

1993-Bachelors of Medicine & Bachelors of Surgery (Faculty of Medical Sciences .Jos University Medical School Jos Plateau State Nigeria.)

1994-1995-United States Medical Licensing Examination in the Basic Biomedical Sciences & Clinical Medical Sciences.

1995-Full Registration with The Medical and Dental Council of Nigeria.

1997-Attestation of Competence in the Test of English as a Foreign Language (TOFEL) administered by the English Language Educational Testing service. (ETS)USA

1997-International English Language Testing Service (IELTS)-Attestation of Competence by the, Universities of Australia, Cambridge and the British Council UK.

1997-Educational Commission for Foreign Medical Graduates (E.C.F.M.G) USA English Language Test Attestation of Competence.

1997-Educational Commission for Foreign Medical Graduates (E.C.F.M.G) Examination Certification & Visa Qualifying Examination Certification.

1998-Full Registration Gambia Medical and Dental Council The Gambia.

2000-Attestations of Competence Basic Ultrasonography.Department of Paediatric Nephrology University of Essen. Essen. Federal Republic of Germany.

2001-Licentiate of the Medical and Dental Council of Ghana.

2002-Attestation de Reussite et le Diplome de Etudes En langue Francaise (DELF) DE Ministere de la Jeunesse de L Education Nationale et de La Recherche Republique Francaise.

2004-Certification in Clinical Research &Scientific Publication by the Vienna School of Clinical Research Austria Vienna.

2005-Membership of The European Society of Medical Oncology.Lugano Switzerland.

2005-Membership of Royal College of Paediatrics & Child Health London United Kingdom. (RCPCH)-

2006-Fellowship of Royal Society of Medicine, London. United Kingdom. Sections Of Pathology, Anaesthesiology, Oncology&Paediatrics/Child Health.

2006-Fellowship of The Royal Society of Health (RSH)- United Kingdom.

2006-Membership of the European Society of Pathology AT The Department of Pathology of the University Medical Centre & the University of Nijmegen, Nijmegen. Netherlands.

2006-Membership of The Society for Pediatric Pathology of the United States of America & Canadian Academy of Pathology (USCAP) USA

2007-Fellowship of the Royal College of Emergency Medicine London United Kingdom.

2008-Fellowship of the Royal Society for Public Health. London United Kingdom.

2008-Fellowship of the Royal Statistical Society London UK.

2008-Membership of the European Association for Science Editors AT The Annals of Botany Company The Innovation Centre.The University of Exeter .UK .

2011-Fellowship of the Royal Society for the Encouragement of Arts, Manufactures& Commerce. (RSA)-UK

2011-Membership of the Medical Historical Society of New Jersey At The University of New Jersey School of Medicine and Dentistry .New Jersey USA.

2011-Membership of the Royal Historical Society AT The University College London.UK

2007-Membership of the European Society For Paediatric Infectious Diseases AT The Clinica Paediatrica Department Of Paediatrics Spedali Civili Hospital, Brescia, Italy.

2013-Membership of the European Academy of Neurology. Vienna. Austria.

2019-Elected Active Faculty Member of The American Association of University Professors (AAUP) .USA.

2019-Elected Active Member of the Association of Professors of Human and Medical Genetics (APHMG).U.S.A.

2019-Participant.Member.Of TheTeaching Collegiate Professors.Forum.USA.

2019-Elected Active Member Teaching Education and Research Association (TERA) of Eurasia Research.

2019-Member of The Association Of The Clinical Research Professionals-(ACRP).USA.

2008-Member Of The Society For Neurochemistry AT.THE.Department. of Biochemistry and Molecular Biology, University of Salamanca,Edificio Departmental, Laboratory. 122,Campus Miguel de Unamuno, 37007 Salamanca (Spain).

2008-Member Chartered Institute Of Library And Information Professionals (CILIP) UK

2021-Member British Association Of Clinical Anatomy (BACA).At The University Of Cambridge.UK.

2021-Member of The British Institute of Radiology. (BIR). (UK)

2021-Member of The Institute of Medical Illustrators. At The Birmingham's University Hospital (UK)

2021-Fellow-Of-The-Royal-Society-Of-Biology-(F.R.S.B)UK.

### **Awards&Honours**

1999- Best Doctor Award in paediatric Medicine .Royal Victoria teaching Hospital Banjul. The Gambia. West Africa.

2005- Marie Currie Actions Fellowship Award in Paediatric Haematology and Oncology.ESH/EHA

1988-External Bureau Scholarships For Undergraduate Medical Studies in Austria, Hungary, Romania or Bulgaria.

### **References:**

Prof.Lucio Pollice.MD, PhD-Emeritus Professor and Chairman-Instituto di Anatomia Patologica

Sezione di Anatomia Patologica-Dipartimento di Anatomia e di Genetica -Facolta di Medicina

Universita degli Studi Bari-Bari-Italy

Prof.J.M Oli.

Professor of Medicine

Affiliations:-College of Medicine, University of Nigeria Teaching Hospital, Enugu Nigeria  
Visiting Research Professor Genetic Studies NIH National Institutes of Health Bethesda Maryland 20892.USA.

Prof.R.A Adegbola .PhD, FRCPPath, FRCP, FAS.

Honorary Visiting Professor -Department of Infection, Immunity and Inflammation.  
University of Leicester England UK&Senior Program Officer -Infectious Diseases Global Health Program Gates Foundation Seattle W.A 98102 U.S.A -Formerly Professor & Head Bacterial& Infectious Diseases Research Programme-UK Medical Research Council The Gambia.

Consultant and Research Professor at the Nigerian Institute of Medical Research.

Independent Consultant in Immunisation and Global Health at RAMBICON, Lagos.

Scientist for the epidemiology and prevention of Hib and pneumococcal diseases as a matter of public importance in which Hib conjugate vaccines have been introduced.

Visiting Professors to several Universities in Nigeria and beyond.

Scientific member of the World Health Organization's Meningitis Vaccine Project Advisory Group.

Vice Chair of the European and Developing Countries Clinical Trials Partnership Board.

Scientific Member of the WHO Africa Regional Immunization Technical Advisory Group (RITAG)

Trustee of the Expanded Civil Society Initiative on Immunization in Nigeria.  
Global Director, Scientific Affairs & Public Health @ GlaxoSmithKline Biologicals.  
Senior Program Officer & Lead for Pneumonia Clinical Studies @ Bill & Melinda Gates Foundation.  
Scientific Expert in Global Health, Infectious Diseases, Public Health, Infections in the tropics and Vaccination Implementation, Vaccine Trials, Vaccine Effectiveness Studies, High level negotiations with governments and NGO's.  
Scientific Member of International Scientific Coordinating Committees.  
Scientific Member & Vice Chair EDCTP Board, The Hague,  
Scientific Expert in Vaccines, Clinical Trials, Microbiology, Lifesciences, Biostatistics, Clinical Research, Science, Molecular Biology, Immunology, Research, International Health, Biotechnology, Flow Cytometry, Medicine, ELISA.

Dr.Charles Ibe.-DVM&Fellow of The College Of Veterinary Surgeons.  
Formerly President Of The College Of Veterinary Surgeons (Nigerian Chapter)  
Consultant Scientific Veterinarian and CEO. Vet Konsults Ltd/ Blue Bat Company Nigeria Ltd.  
Dundee- Scotland.United Kingdom &Kaduna , Kaduna State Nigeria.

Dr.Ifeanyi Ojuro. FRCS.  
Consultant Surgeon&Chairman of the Board of Directors  
Calder Hall Medical Centre.(CHMC)  
38 Calder Hall Road  
Scarborough  
Tobago  
(Trinidad and Tobago W.I.)  
E-mail: ifeanyioruro@hotmail.com  
Tel - (868) 660 7873

Professor Hassan Azadeh.MD.  
University of The Gambia.  
Professor&Consultant  
Currently AT The University Of The Gambia. School Of Medicine &Allied Health Sciences Edward Francis Small University Teaching Hospital.BanjulThe Gambia.West Africa.  
Formerly The Royal Victoria University Teaching Hospital, Banjul  
The Gambia.West Africa.  
Chief Executive Officer&Chief Medical Director.  
Medicare Health Services, Laboratories& Pharmacy. The Gambia.  
Chair&Head Of Obstetrics &Gynaecology  
Department Of Obstetrics&Gynaecology At The American International University.Banjul.The Gambia.West Africa.  
Formerly Consultant Obstetrician&Gynaecologist.  
Birmingham's Women's Hospital Birmingham.England.UK.

Formerly Scientific Research Clinician. Infectious Diseases & Genito-Urinary Clinic. Medical Research Council .The Gambia. West Africa.  
Formerly, World Health Organisations Safe Motherhood International Scientific Technical Expert Seconded To The Royal Victoria University Teaching Hospital Banjul The Gambia. West Africa.

**Career Overview/Professional Background:**  
**Scientific Professional And Academic Experience**

2019-To Date

Head of Department, Educational Examiner ,Assesor,&Academic Research Faculty. (Teaching, Administration&Non-Experimental Academic Scientific Research)

Chief Executive Officer, Educational Examiner, Assesor, Scientific Editor In Chief, Ethics Editor, Scientific, Publisher Scientific Investigator and Auditor (International Scientific Auditor For Experimental Scientific Research) .& Honorary Adjunct Guest Principal Lecturer (Teaching).

Legacy University The Gambia.

Classics and Revisits in Scientific Medicine. CRSM. The Gambia.

2013-2018-

Chief Executive Officer, Educational Examiner ,Assesor ,Scientific Editor In Chief, Ethics Editor, Scientific, Publisher Scientific Investigator and Auditor (International Scientific Auditor For Experimental Scientific Research) .& Honorary Adjunct Guest Principal Lecturer (Teaching).

Cottage Collegiate Clinic (CCC)/Laboratories & Classics and Revisits in Scientific Medicine. CRSM. The Gambia.

The Gambia College School Of Nursing & Midwifery and The University Of The Gambia College Of Medicine & Allied Health Sciences The Gambia West Africa.

2005-2012-

Educational Examiner ,Assesor Clinical Scientist, Academic Research Fellow, Deputy Head Of Department & Honorary Adjunct Guest Principal Lecturer

The Academic Department Of Paediatrics Royal Victoria University Teaching Hospital ,Banjul The Gambia West Africa.

The University Of The Gambia College Of Medicine & Allied Health Sciences. The Gambia West Africa. Banjul The Gambia.

The Gambia College School Of Nursing & Midwifery

2001 To 2005

Examiner ,Assesor, Scientific Research Registrar, Scientific Senior Investigator & Honorary Adjunct Lecturer.,

Academic Department of Paediatrics Royal Victoria University Teaching Hospital Banjul  
The Gambia. West Africa.

University Of The Gambia, College Of Health Sciences & Allied Health Sciences  
The Gambia College School Of Nursing and Midwifery.

1999-2000

Chief Resident in Paediatrics ,Educational Examiner ,Assesor& Honorary Adjunct  
Lecturer,

Academic Department of the Royal Victoria University Teaching Hospital (RVTH) Banjul  
The Gambia.

The Gambia College School Of Nursing and Midwifery Banjul The Gambia` West  
Africa.

1997 To 1998.

Health Scientist,Independent Scholar Educational Examiner ,Assesor& Pharmaceutical  
Stock Analyst. (Teaching, Scientific Research, Health Education, Health Promotion  
&Health Maintenance ).

Health Care Organisation For Africa. The Gambia.

United Care Switzerland The Gambia Project.

1996 To 1997

Educational Scientific Health Visitor (Scientific Education& Scientific Research )

Spent significant study days for mentored observational clerkships, perceptorships and  
training .

North Middlesex University Teaching Hospital London & several other notable university  
affiliated teaching hospitals, academic health institutions in the British Isles.

1995 To 1996-

NYSC Health Scientist (Scientific Teaching, Scientific Research, Educational Examiner,  
Assesor, Health Education, Health Promotion, Health Maintenance, Scientific Author,  
Pharmaceutical Stock Analyst, Library, Information&Archival Sciences Associate).

National Youths Service Training Corps (NYSC) Programme in Nigeria.

1993 To 1995.

Internship and Residency, Educational Examiner ,Assesor, Academic Scientific Research  
Associate (Teaching) (Health Care Delivery, Education ,Teaching,&Scientific Research)

Nnamdi Azikiwe University Teaching Hospital ,Nnewi Anambra State Nigeria

University Of Nigeria Teaching Hospital Enugu, Nigeria.

**Declaration.**

Dr.Emmanuel Udemezue Onyekwelu FRSB

**Dr.Emmanuel Udemezue Onyekwelu FRSB**

Signed: 2021-06-09

**Fellowships, Memberships &Affiliations To Academic And Professional Organizations**

Fellow of the Royal College of Emergency Medicine London United Kingdom.

Fellow of Royal Society of Medicine, RSM London. United Kingdom.

Member of The RSM Sections of CHILD-HEALTH-Pathology Oncology. And.-The Anaesthesiology Intensive. Emergency Care- Sections Of The Royal Society of Medicine, RSM London. United Kingdom.

Fellow of The Royal Society of Health (RSH)-A UK based Postgraduate Health Institute Indexed and Affiliated To The London School of Hygiene and Tropical Medicine (LSHTM) of The University of London. United Kingdom.

Fellow of the Royal Society for Public Health. London United Kingdom.

Member Fellowship of the Royal Statistical Society London UK.

Fellow of the Royal Society for the Encouragement of Arts, Manufactures& Commerce. (RSA)-A UK based Think Tank and Academic-Professional-Institute-with an academic examination board (RSA Board Exams) syndicated with The London University, The Cambridge University and The Oxford University (OCR) examination boards Syndicates, in addition to syndications with The other Incorporated Examinations Boards in The UK and beyond.

Member of The-Royal College of Paediatrics & Child Health London -United Kingdom. (RCPCH)-An academic and professional governing institute which is an associate member of the European Academy of Paediatrics)

Academician &Member of the European Academy of Neurology. Vienna. Austria.

Member, Scholar and Warden In The Academic Research Laboratory Of Prof.Dott.Lucio Pollice.MD, PhD Emeritus-Professor and Chairman-Instituto di Anatomia Patologica ,Sezione di Anatomia- Patologica,Dipartimento di Anatomia e di Genetica ,Facolta di Medicina Università degli Studi Bari Bari Italy between 2004 & 2005 To Date.

Member of The European Society of Medical Oncology Lugano Switzerland. At The Université Libre de Bruxelles (ULB) &The Jules Bordet Institute (Brussels/Belgium).

Licentiate of the Medical and Dental Council of Ghana.

Fellow For The European Commission's Marie Curie Actions Research. Fellowship Grant Award in Paediatric Haematology and Oncology. The European School of Haematology At The Institut Universitaire de Hematologieet The Institute de Recherche Sur Les Leucemies et Les Maladies Du Sang.Centre Hayem, Hopital Saint-Louis-1 avenue Claude Vellefaux,75475 Paris Cedex 10,France and the European Association of Haematology .

Attestation of Competence in Good Clinical and Laboratory Practice (GCLP), Certification in Clinical Research &Scientific Publication by the Vienna School of Clinical Research Austria Vienna.

Attestation de Reussite et le Diplome de Etudes En langue Francaise (DELF) DE Ministere de la Jeunesse de L Education Nationale et de La Recherché Republique Francaise.

Attestations of Competence Basic Ultrasonography.Department of Paediatric Nephrology University of Essen. Essen. Federal Republic of Germany.

Best Physician Award in paediatric Medicine .Royal Victoria teaching Hospital Banjul. The Gambia. West Africa.

Full Registration Gambia Medical and Dental Council The Gambia.

Educational Commission for Foreign Medical Graduates (E.C.F.M.G) Examination Certification & Visa Qualifying Examination Certification.

Accreditation of Medical Trainings, Verification & Ratification of Medical Doctorate & Doctor of Medicine (M.D) Degrees Equivalence OR Comparability by (E.C.F.M.G) U.S.A.

Attestation of Competence in the Test of English as a Foreign Language (TOFEL) administered by the English Language Educational Testing service. (ETS)USA

International English Language Testing Service (IELTS) Attestation of Competence by the, Universities of Australia, Cambridge and the British Council UK.

Educational Commission for Foreign Medical Graduates (E.C.F.M.G) USA English Language Test Attestation of Competence.

Unites States Medical Licensing Examination in the Basic Medical Sciences.

Unites States Medical Licensing Examination in the Clinical Medical Sciences.

Full Registration with The Medical and Dental Council of Nigeria.



Bachelors of Medicine & Bachelors of Surgery (Faculty of Medical Sciences .JOS University Medical School Jos Plateau State Nigeria.)

Elected.Active-Contigent Faculty Member of The American Association of University Professors (AAUP) .USA.

Elected Active-Member of the Association of Professors of Human and Medical Genetics (APHMG) U.S.A.

Participant.Member.Of TheTeaching.Professors.Forum.USA.

Elected Active Member Teaching Education and Research Association (TERA) of Eurasia Research.

Member of The Association Of The Clinical Research Professionals-(ACRP).USA.

Fellow-Of-The-Royal-Society-Of-Biology-(F.R.S.B)UK .-2021

Member Of The Society For Neurochemistry AT.THE.Department. of Biochemistry and Molecular Biology, University of Salamanca,Edificio Departmental, Laboratory. 122,Campus Miguel de Unamuno, 37007 Salamanca (Spain).since 2008.

Member Chartered Institute Of Library And Information Professionals (CILIP) UK

Nominated Affiliate Scholar - The Division Of Paediatric Pathology-Department of Pathology- National University Of Athens Medical School Athens Greece since 2004.

Bachelors of Science in Basic Medical Sciences Equivalence Attestation Of The Faculty Medical Sciences University Of Jos.,Jos Nigeria.(1991)

Bachelors Of Medicine&Bachelors Of Surgery Of The Faculty Medical Sciences University Of Jos .,Jos Nigeria.(1993)

Academician&Member of The European Academy of Neurology .Austria .Vienna since 2013.

Member of the society for Social Medicine & Social Medicine Administration- Public Health Resource Unit. Oxford. & The Cardiff Institute Of Society, Health and Ethics Park Place , Cardiff Wales UK since 2006

Member Of International Epidemiological Association since 2006.

Member of The Society For Paediatric Pathology Of The United States of America & Canadian Academy Of Pathology (USCAP) Augusta.Georgia.USA since 2006.

Member of the North American Society of Cardiovascular Imaging.USA since 2010.

International Member of the European Society for Emergency Medicine since.2007

Member of the European Society of Intensive Care Medicine At The Department of Anesthesiology and Intensive Care AT The North University Hospital, Marseilles. France since 2006.

Eduactional Scientific Member, Scholar and Waden In The Academic Research Laboratory Of Prof.Dott.Lucio Pollice.MD, PhD Emeritus-Professor and Chairman-

Instituto di Anatomia Patologica ,Sezione di Anatomia- Patologica,Dipartimento di Anatomia e di Genetica ,Facolta di Medicina Università degli Studi Bari, Bari ,Italy between 2004 & 2005 To Date.

Educational Scientific Member of Section Of Health Services and Outcome. Research Of The ESICM since-2007.

Educational Scientific Member of the European Society of Intensive Care Medicine and Anaesthesiology since 2006.

Educational Scientific Member of the European Society of Neonatal and Paediatric Intensive Care Medicine since 2006.

Educational Scientific Member of the Medical Historical Society Of New Jersey AT-THE University of New Jersey School of Medicine and Dentistry New Jersey USA since 2011.

Educational Scientific Member of the Royal Historical Society AT The University College London.UK since 2011.

Educational Scientific Member of the American Historical Association AT The Indiana State University Indianapolis .Indiana USA since 2011.

Educational Scientific Member of the Society for History Education AT The California State University California .USA since 2011.

Educational Scientific Member of the American Medical Writers Association.USA since 2011.

Educational Scientific Member of the Council for Science Editors.USA since 2011.

Scientific Member of The Educational Writers Group (EWG) of the Society of Authors UK since 2011.

Educational Scientific Member of the Society for Literature UK.since 2011

Academician & Scientific Member of the European Academy of Paediatric Societies. since 2005.

Educational Scientific Member of the Society for Neurochemistry At The Department of Biochemistry and Molecular Biology, University of Salamanca,Edificio Departmental, Laboratory. 122, Campus Miguel de Unamuno,37007 Salamanca (Spain).since 2008.

Educational Scientific Member of the Society of Neurosciences.USA since 2008.

Educational Scientific Fellow of the Royal Statistical Society UK since 2008.

Educational Scientific Member Of The European Association for Science Editors AT The Annals of Botany Company .The Innovation Centre.The University of Exeter .U K since 2008.

Educational Scientific Member of the Chartered Institute of Library & Information Professionals (CILIP).UK.since 2008.

Educational Scientific Member of the European Academy of Paediatrics since 2005.

Educational Scientific Member of The European Society For Paediatric Infectious Diseases ESPID At The Clinica Paediatrica dell'Università Piazzale Spedali Civili 1.25124. Brescia-Italy. Since 2007.

Educational Scientific Member of the European Society of Anaesthesiology and Intensive Care Medicine Belgium Brussels A Member of The Federation of International Association Established in Belgium since 2006.

Educational Scientific Member of The European Society of Neonatal and Paediatric Intensive Care Medicine Belgium-F.A.I. B - Brussels since 2006.

Educational Scientific Member of The European Society For Paediatric Radiology. Since 2009.

Educational Scientific Member Of The European Society for Paediatric Infectious Diseases At The Clinica Paediatrica dell'Universita Piazzale Spedali Civili.1.25124. Brescia. Italy since 2007.

Educational Scientific Member of The European Association of Public Health since 2006.

Educational Scientific Member of The European Paediatric Neurology Society since 2008.

Educational Scientific Member of The European Society of Pathology At The Department of Pathology of the University Medical Centre & The University of Nijmegen, Nijmegen. Netherlands since 2006.

Educational Scientific Member Of The Society for Paediatric Radiology USA since 2006.

Educational Scientific Member European Society for Paediatric Radiology since 2006.

Educational Science Member European Public Health Association Since 2006.

Educational Scientific Member of the European Society for Paediatric and Neonatal Intensive Care since 2006.

Educational Scientific Member of the World Society for Abdominal Compartment Syndrome since 2006.

Educational Scientific Member of the European Congress& European Society of Educational Radiology since 2006.

Educational Scientific Member of The European Society of Medical Oncology since 2006.

Educational Scientific Member of the European Resuscitation Council since 2006,

Educational Scientific Member of the European Society for Therapeutic& Radiation Oncology. Since 2006.

Educational Scientific Member of The European Society For Paediatric Haematology Educational and Immunology (ESPHI) since 2006.

Educational Scientific Member of the European Society for Endocrinology. Since 2009.

Educational Scientific Member of the European Society for Paediatric Endocrinology. Educational Since 2009.

Educational Scientific Member of the Royal Society of Literature since 2011.

Educational Scientific Member Federation Of The European Neurosciences Society - FENS-since-2008.

Educational Scientific Affiliate Professor Zvi Laron I Paediatric Endocrinology International Library –Petach- Tikvah Israel.

Educational Scientific Member The Society for Applied Neurosciences (SAN) & Group of Applied Neurosciences (GAP) Thessaloniki, Greece, Since 2011.

Educational Scientific Course Participant- Glasgow DermatoPathology Course Specialty Training Courses Section. Department Of Postgraduate Medical Education University Of Glasgow West Of Scotland Postgraduate Medical Education Board Glasgow Scotland.

### **Chronological Academic and Professional EXPERIENCE With Credentials/Specialty & Institution**

Nominated Affiliate Scholar - The Division Of Paediatric Pathology-Department of Pathology- University Of Sao Paulo Medical School Sao Paulo Brazil since 2004.

Nominated Affiliate Scholar - The Division Of Paediatric Surgical Pathology- Department of Surgery & Pathology-Our Lady's Hospital For Sick Children Crumlin Dublin –Trinity College Dublin University Of Dublin Ireland 2004.

Dr. Emmanuel Udemezue Onyekwelu graduated from the (Faculty of Medical Sciences .JOS University Medical School and the JOS University Teaching Hospital (JUTH) Jos Plateau State Nigeria.) in January 1993. He went on to complete his housemanship and internship training at the Nnamdi Azikiwe University Teaching Hospital in Nnewi Anambra State Nigeria in 1993 to 1995.

During this period he undertook and achieved the United States Medical Licensing Examination in both the Basic Medical and Clinical Sciences (Steps One (I) and Two (II)).

•In addition to the Educational Commission For Foreign Medical Graduates (E.C.F.M.G) English Language Test.

And in 1996, he underwent his National Youths Service Training Corps (NYSC) Programme, in Ondo State Nigeria.

Between 1996 to 1997 DR.Emmanuel Onyekwelu spent significant study days for mentored observational clerkships, perceptorships and training at the North Middlesex Teaching Hospital London .United Kingdom and several other notable hospitals,

academic health institutions and Surgeries in England & Wales, Edinburgh, Glasgow and Dundee in Scotland in addition to major centres in Northern Ireland, Republic of Ireland, the rest of the British Isles.

In 1999, he joined the Academic Paediatric Department of the Royal Victoria Teaching Hospital (RVTH)-Affiliated To The University of The Gambia where he received training in General and multidisciplinary aspects of Paediatrics and Medicine of Childhood. In the same year of 1999 Dr Emmanuel Onyekwelu was awarded the best Doctor of the Year at Royal Victoria Teaching Hospital Banjul Affiliated To The University of The Gambia ,The Gambia in the Department of Paediatrics.

He was the Chief Resident of the Academic Paediatric Department of the Royal Victoria Teaching Hospital (RVTH), Affiliated To The University of The Gambia where he was in charge of seeing that the training curriculum for the Residency Training in Paediatrics was executed and implemented according to the Regional and Global Post Graduate Medical Curricular.

He was the Deputy Head Of Department of the Academic Paediatric Department of the Royal Victoria Teaching Hospital (RVTH), Affiliated To The University of The Gambia overseeing the Academic Activities of Elective undergraduate and Postgraduate students from, Africa, Europe, America, Oceania and Beyond.

Between 2004 & 2005 Dr Emmanuel Onyekwelu was a Member, Scholar, Specialist Scientist and Warden In The Academic Research Laboratory Of Prof.Dott.Lucio Pollice.MD, PhD Emeritus-Professor and Chairman-Instituto di Anatomia Patologica ,Sezione di Anatomia- Patologica,Dipartimento di Anatomia e di Genetica ,Facolta di Medicina Università degli Studi Bari Bari Italy

In 2005, Dr. Emmanuel was admitted as a Overseas Foreign Associate Member of the Royal College of Paediatrics in London and in 2005 he was granted Membership of the European Society of Medical Oncology.

Dr. Emmanuel Udemezue Onyekwelu is a Member of The European Academy of Paediatrics.Geneva Switzerland.

Fellow of the Royal College of Emergency Medicine London United Kingdom.

Member of the European Society of Medical Oncology. Lugano Switzerland.

Academician and Member of the European Academy of Neurology. Austria Vienna

Fellow of Royal Society of Medicine, London.United Kingdom. (Member of The Section of Paediatric and Child Health, The Section of Pathology and Oncology and The Section of Anaesthesiology and Intensive Care Medicine

Fellow of The Royal Society for Health London United Kingdom

Dr Emmanuel is experienced in the assessment ,evaluation,management and treatment of common general medical conditions as well as emergency procedures. He is also trained in advanced Paediatric and Adult Life support.

He has been trained in both conventional medical and novel medical management approaches. DR.Emmanuel is well versed with the latest interventional and resuscitative procedures in internal and paediatric medicine. He has particular expertise in the management of complex and pharmacologically intractable medical and paediatric emergencies such as status epilepticus, status asthmaticus etc.

Dr Emmanuel has always been enthusiastic and diligently involved with both intramural and extramural undergraduate and post graduate medical educational assessment and teaching , in recognition of this, he was awarded the 2005 Marie Currie Actions Specialist Scientist Fellowships for the Course on Focus in Paediatric Haematology and Oncology at the European School of Haematology At The Institut Universitaire de Hematologie et The Institute de Recherche Sur Les Leucemies et Les Maladies Du Sang Centre Hayem, Hopital Saint-Louis-1 Avenue Claude-Vellefaux,75475 Paris Cedex 10,France and the European Association of Haematology at Sestri Leventi Italy.

Dr Emmanuel has admitting privileges to several notable Hospitals both in the Gambia, and beyond. He is also an attending specialist and visiting consultant to some of these health facilities.

Dr Emmanuel is fluent in both spoken and written English and has a working knowledge of French Language, Spanish, Portuguese, German, Italian,Greek.He is a guest lecturer and regular presenter at several academic institutions in The Gambia and beyond.

Dr.Onyekwelu is an Elected Active-Contigent Faculty Member of The American Association of University Professors (AAUP) USA.

And an Elected Active-Member of the. Association of Professors of Human and Medical Genetics (APHMG).U.S.A.

He is a Participant Member The Teaching Professors Forum USA.

An Elected Member Of The Teaching Education and Research Association (TERA) of Eurasia Research.

He has the Membership of The Association Of Clinical Research Professionals-(ACRP) USA

### **Other Administrative, Committees, Academic & Professional Appointments**

- Visiting Consultant and Attending Clinician to several notable hospitals and Health Facilities in The Gambia and beyond. Worked continually in Medical and Surgical wards since qualification as a Medical Doctor in 1993. (Attended to and processed a high volume load of About 50,000 inpatients and 90,000 Outpatients case mix of both adults and paediatric cases.) See Portfolio of Clinical and Research Trainings, Publications and References

- In addition to Multidisciplinary and Interdisciplinary Subspecialty Clinics.

- Department Representative – Joint Commission on the Integrated Management of Childhood Disorders(IMCI)

- Member of several Hospitals Health Protection Workgroup

- Member of Hospitals Ethics Committee.

- Member of Hospitals Medical Records Committee.

- Member of the Hospital Morbidity and Mortality Enquiry Medical Boards

Chief Resident and Research Registrar – General Medicine and Paediatrics – Hospital, September 1999 through Nov 2002 – Nov 2005.

Hospital Consultant & Clinical Research Fellow 2006-2012.

### **Academic Appointments**

Educational Assessor ,Examiner, Mentor,

- Educational Assessor, Examiner, Mentor ,Instructor for the Advanced Trauma Life Support Course.

- Educational Assessor ,Examiner, Mentor,Instructor for the Basic Life Support Skills and the Emergency Triage, Assessment Treatment and Support System(ETASS)

- Educational Assessor ,Examiner, Mentor ,Adjunct Academic Faculty for the School of Medicine and Allied Health Sciences UTG& Academic Department of paediatrics R.V.T.H.Banjul The Gambia.

- Senior Investigator/Supervisor in Multicentric Severe Malaria in African Children (SMAC) Network.

- Member of Academic Faculty/Hospital Disciplinary Committees.

- Educational Assessor,Member of Academic Faculty/Hospital Awards Committees.

- Educational Assessor,Member of Academic Faculty/Hospital Communications and Medical Curriculum Committees.

- Educational Assessor Member of Academic Faculty/Hospital Advisory Committees.

Co-Convenor and Co-ordinator of National, Regional and International Meetings and Congresses.

- Publisher,Editor In Chief Specialist Scientist, Editor-In-Chief Classics and Revisits in Scientific Medicine.

- Dr. Emmanuel has undergone several instructive Fellowships with instructive teaching Sessions and hands on course and Care in several notable institutions in the Africa, the European continent and beyond.

He has participated in Lecture, Assessment and Examination Tours in various University Academic and Research Institutions in West Africa, Central Africa, North Africa, East Africa, Southern Africa, Middle East, and European Continent and Beyond.

He has participated in several Authors Visits in various University Academic and Research Institutional associated Libraries and Book Festivals in West Africa, Central Africa, North Africa, East Africa, Southern Africa, Middle East, and European Continent and Beyond.

Educational Assessor, Examiner, Mentor, Academic and Research Guest Professorships to Several Academic Institutes in West Africa, Central Africa, North Africa, East Africa, Southern Africa, Middle East, European Continent and Beyond.

Educational Assessor, Examiner, Mentor, Scientific Academic Professional, Senior Scientific Investigator, Scientific Study Auditor, Monitor TO Several Academic Scientific Research Institutes in West Africa, Central Africa, North Africa, East Africa, Southern Africa, Middle East, European Continent and Beyond.

**This is a brief statement of my academic and professional milestones in addition to my selected publication list.**

**University and Appointments January 2019 to Date:**

Head of Department of Clinical Sciences The College of Health Sciences, Legacy University The Gambia. West Africa.

Educational Assessor, Examiner, Mentor, Medical Scientific Scholar, Investigator, Editor, Monitor, Inspector, Author, Editor in Chief, & Academic Referee and Publisher of Evidence Based Health Scientific Themes for several notable Medical Journals, Periodicals in The Gambia and Beyond,

Elected Active Contingent Faculty Member of The American Association of University Professors (AAUP) USA.

Elected Active Member of the Association of Professors of Human and Medical Genetics (APHMG). U.S.A.

Participant Member The Teaching Collegiate Professors Forum. USA.

Elected Member Teaching Education and Research Association (TERA) of Eurasia Research.

Elected Active Member of The Association Of Clinical Research Professionals-(ACRP) USA

**Appointments:**

Educational Assessor, Examiner, Mentor, Evidence Based Medical Scientific Governance Expert, Guest Editor & Publisher.



### **June 2012 to Date:**

Educational Examiner ,Assesor ,Medical Scientific Scholar, Auditor,Monitor,Inspector,Author, Ethics Editor, Principal Lecturer, Editor in Chief, &Academic Referee and Publisher of Evidence Based Scientific Health Themes for several notable Medical Journals, Periodicals and Affiliated Scientific Health institutions in The Gambia and Beyond.

Senior Partner and Senior Academic Medical Consultant with admitting privileges to Several Notable Hospitals in the Gambia and Beyond.

Chief Medical Director/CEO- Clinical &Laboratory Services-CCC-The Gambia West Africa.2010 To 2018.

### **1999 TO 2012 . Rotations and POSTINGS:**

#### **NATIONAL, REGIONAL AND INTERNATIONAL UNIVERSITY AFFILIATED Teaching and Academic Independent Health Research Institutional Rotations, Postings and Appointments with Field work.**

EducationalAssesor ,Examiner, Mentor,Academic Lecturer ,Clinical Instructor ,Chief Resident and Senior Research Investigator &Research Associate .The Royal Victoria Teaching Hospital ,The School of Medicine and Allied Health Sciences and The School of Nursing and Midwifery.The Gambia College and The University of The Gambia 1999 to 2012.

### **September 1999 to September 2001**

#### **Chief Resident in Paediatric Medicine with Subspecialty Academic Research and Clinical Trainings Rotations in:**

Paediatric Dermatology, Paediatric Neurology&Psychiatry, Paediatric Pathology, Paediatric Dermatopathology, Haematology and Oncology.Paediatric Infectious Diseases, Paediatric Radiology. Paediatric Immunopathology and Rheumatology, Paediatric Endocrinology& Metabolic Disorder, Paediatric Palliative Care.

Paediatric Nephrology, Paediatric Cardiology, Paediatric Pulmonology.

Paediatric Emergency Medicine, Childs Environmental and Community Public Health in addition to Social and Preventive Paediatrics.

### **Academic Clinical Research Investigations and Trainings October 2001 to 2007**

Senior Research Associate ,Senior Research Investigator and Lead Clinician in the Section of Emergency Medicine .of the Department of Internal Medicine of the .College of Osteopathic Medicine of The University of Michigan State USA, with the UK Medical Research Council The Gambia (MRCG) and The Royal Victoria Teaching Hospital(RVTH) The Gambia Multicentric National Institute of Health USA sponsored Severe Malaria in African Children Collaborative Research Network who undertook extensive Clinical, Laboratory and Field medical scientific research investigation. This work represents probably the largest of all-Malaria Consortia studies globally and is one of the most frequently cited work in malaria related subspecialties universally such as adult and paediatric emergency medicine, laboratory medicine, haematology, morbid anatomy and chemical pathology etc. (See Publication Lists and Citations)

With Contemporaneous Intramural National & International Hospitals and extramural Independent Practices Academic, Research and Clinical Subspecialty Trainings and Rotations with professional responsibilities in:

Adult&Paediatric Dermatology, Adult&Paediatric Neurology& Psychiatry, Adult and Paediatric Immunopathology, Haematology and Oncology. Adult and Paediatric Pathology, Dermatopathology ,Immunopathology and Rheumatology.

Adult and Paediatric Endocrinology& Metabolic Disorder, Adult and Paediatric Palliative Care.

Adult and Paediatric Nephrology, Adult and Paediatric Cardiology, Adult and Paediatric Pulmonology.

Adult and Paediatric Emergency Medicine and Intensive Care.  
Childs Environmental and Community Public Health in addition to Adult and Preventive and Social Paediatrics.

Medical Scientific Scholar, Author, Lecturer, Editor and Publisher of evidence Based Medicine for several notable Medical Journals, Periodicals and Affiliated Health institutions in The Gambia and Beyond,

An elected Active Contingent Faculty Member of The American Association of University Professors (AAUP) Washington .USA.

An elected Active Member of the Association of Professors of Human and Medical Genetics (APHMG).Florida .U.S.A.

## **References:**

Prof.Lucio Pollice.MD, PhD-Emeritus Professor and Chairman-Instituto di Anatomia Patologica

Sezione di Anatomia Patologica-Dipartimento di Anatomia e di Genetica -Facolta di  
Medicina  
Universita degli Studi Bari-Bari-Italy

Prof.J.M Oli.

Professor of Medicine

Affiliations:-College of Medicine, University of Nigeria Teaching Hospital, Enugu Nigeria  
Visiting Research Professor Genetic Studies NIH National Institutes of Health  
Bethesda Maryland 20892.USA.

Prof.R.A Adegbola .PhD, FRCPath, FRCP, FAS.

Honorary Visiting Professor -Department of Infection, Immunity and Inflammation.

University of Leicester England UK&Senior Program Officer -Infectious Diseases Global  
Health Program Gates Foundation Seattle W.A 98102 U.S.A -Formerly Professor &  
Head Bacterial& Infectious Diseases Research Programme-UK Medical Research  
Council The Gambia.

Consultant and Research Professor at the Nigerian Institute of Medical Research.

Independent Consultant in Immunisation and Global Health at RAMBICON, Lagos.

Scientist for the epidemiology and prevention of Hib and pneumococcal diseases as a  
matter of public importance in which Hib conjugate vaccines have been introduced.

Visiting Professors to several Universities in Nigeria and beyond .

Scientific member of the World Health Organization's Meningitis Vaccine Project  
Advisory Group.

Vice Chair of the European and Developing Countries Clinical Trials Partnership Board.

Scientific member of the WHO Africa Regional Immunization Technical Advisory Group  
(RITAG)

Trustee of the Expanded Civil Society Initiative on Immunization in Nigeria.

Global Director, Scientific Affairs & Public Health @ GlaxoSmithKline Biologicals.

Senior Program Officer & Lead for Pneumonia Clinical Studies @ Bill & Melinda Gates  
Foundation.

Scientific Expert in Global Health, Infectious Diseases, Public Health, Infections in the  
tropics and Vaccination Implementation, Vaccine Trials, Vaccine Effectiveness Studies,  
High level negotiations with governments and NGO's.

Scientific Member of International Scientific Coordinating Committees.

Scientific Member & Vice Chair EDCTP Board, The Hague,

Scientific Expert in Vaccines, Clinical Trials, Microbiology, Lifesciences, Biostatistics,  
Clinical Research, Science, Molecular Biology, Immunology, Research, International  
Health, Biotechnology, Flow Cytometry, Medicine, ELISA.

Dr.Charles Ibe.-DVM&Fellow of The College Of Veterinary Surgeons.

Formerly President Of The College Of Veterinary Surgeons (Nigerian Chapter)

Consultant Scientific Veterinarian and CEO. Vet Konsults Ltd/ Blue Bat Company  
Nigeria Ltd.

Dundee- Scotland.United Kingdom &Kaduna , Kaduna State Nigeria.

**Dr. Ifeanyi Ojuro. FRCS.**

Consultant Surgeon&Chairman of the Board of Directors  
Calder Hall Medical Centre.(CHMC)  
38 Calder Hall Road  
Scarborough  
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(Trinidad and Tobago W.I.)  
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Tel - (868) 660 7873

Professor Hassan Azadeh.MD.  
University of The Gambia.  
Professor&Consultant  
Currently AT The University Of The Gambia. School Of Medicine &Allied Health  
Sciences Edward Francis Small University Teaching Hospital.BanjulThe Gambia.West  
Africa.  
Formerly The Royal Victoria University Teaching Hospital, Banjul  
The Gambia.West Africa.  
Chief Executive Officer&Chief Medical Director.  
Medicare Health Services, Laboratories& Pharmacy. The Gambia.  
Chair&Head Of Obstetrics &Gynaecology  
Department Of Obstetrics&Gynaecology At The American International  
University.Banjul.The Gambia.West Africa.  
Formerly Consultant Obstetrician&Gynaecologist.  
Birmingham's Women's Hospital Birmingham.England.UK.  
Formerly Scientific Research Clinician.Infectious Diseases&Genito-Urinary  
Clinic.Medical Research Council .The Gambia.West Africa.  
Formerly,World Health Organisations Safe Motherhood International Scientific  
Technical Expert Seconded To The Royal Victoria University Teaching Hospital  
Banjul The Gambia.West Africa.

**Some Illustrious and Relevant Teaching Courses Attended with Participant Certifications Entitled Second ESH European School of Haematology (ESH) European School of Haematology (ESH) INSTITUT.UIVERSITAIRE.DE.HEMATOLOGIE ET.The.Institute.de.Recherche.Sur.Les.Leucemies.et.Les.Maladies.Du.Sang.Centr e.Hayem, Hopital.Saint-Louis-1.avenue.Claude-Vellefaux, 75475.Paris.Cedex.10, France and The European Association of Haematology (EAH) 2005 Sestra Leventi Italy. and The European Association of Haematology (EAH) 2005 Sestra Leventi Italy.**

**-EHA Conference On Focus On Paediatric Haematology-Oncology Held At The Fondazione Mediaterraneo, Centro Di Congresso, Palazzo Negrotto Cambioso-Via Portebello, 1416039 Sestri Levante (Genoa) Italy.**

	Teaching Course Participant	Teaching Course Title Date	Teaching Course SubTitle	Teaching Course Tutor &Co-ordinates.	Teaching Course Chairman&Co-ordinates.
1	Onyekwelu. E.U.	Leukaemias 27/10/2005.	Molecular Aberrations in childhood ALL	Amdt. Borkhardt Professor Henich Heine University of Dusseldorf Germany.	Andrea Biondi Professor University of Milano-Biococa Milan, Italy.
2	Onyekwelu. E.U.	Leukaemias 27/10/2005	Difficult Management Questions	A.Baruchel Professor	Andrea Biondi Professor

				Haematology Department Hospital Robert Petre, Paris France	University of Milano- Biococa Milan, Italy.
3	Onyekwelu. E.U.	Leukaemias 27/10/2005	Cell death pathways in Leukaemia therapy	K.M Debatin Professor Department of Paediatrics & Adolescent Medicine University Medical Centre Ulm Germany.	Andrea Biondi Professor University of Milano- Biococa Milan, Italy.

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e.Hayem, Hopital.Saint-Louis-1.avenue.Claude-Vellefaux, 75475.Paris.Cedex.10,  
France and The European Association of Haematology (EAH) 2005 Sestra Leventi  
Italy. and The European Association of Haematology (EAH) 2005 Sestra Leventi  
Italy.**

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Portebello, 1416039 Sestri Levante (Genoa) Italy.**

	Teaching Course Participant	Teaching Course Title Date	Teaching Course Sub-Title	Teaching Course Tutor & Coordinates.	Teaching Course Chairman & Coordinates.
<b>4</b>	Onyekwelu. E.U.	Leukaemia 27/10/2005.	Infant Leukaemia	R.Pieters Professor Division of Haematology /Oncology Queens University Toronto, Ontario	Andrea Biondi Professor University of Milano- Biococa Milan, Italy.

				Canada.	
<b>5</b>	Onyekwelu. E.U.	Leukaemia 27/10/2005.	Long Term Effects	K.Schmiegelow Professor Department of Paediatric & Adolescent Medicine Rigshospitalet Institute of Clinical Medicine University of Copenhagen Denmark.	Andrea Biondi Professor University of Milano- Biococa Milan, Italy.

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France and The European Association of Haematology (EAH) 2005 Sestra Leventi  
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Portebello, 1416039 Sestri Levante (Genoa) Italy.**

	Teaching Course Participant	Teaching Course Title Date	Teaching Course Sub-Title	Teaching Course Tutor & Coordinates.	Teaching Course Chairman & Coordinates.
6	Onyekwelu E.U.	Acute Myeloid Leukaemia. & Myelodysplasias 27/10/2005.	Molecular Genetics & Aetiology.	H. Hasle Professor Department of Paediatrics. Division of Haematology University of Arhus Denmark.	Andrea Biondi Professor University of Milano- Biococa Milan, Italy

7	Onyekwelu E.U.	Acute Myeloid Leukaemia. & Myelodysplasias 27/10/2005.	Issues on Clinical Management	C.Niemeyer. Professor Department of Paediatrics. Division of Haematology University of Arhus Denmark.	Andrea Biondi Professor University of Milano-Biococa Milan, Italy
8	Onyekwelu E.U.	Acute Myeloid Leukaemia. & Myelodysplasias 27/10/2005	Drug resistance Mechanisms and Novel treatment approaches.	G.J.L. Kaspers Professor Department of Paediatric Oncology & Haematology VU University Medical Centre Amsterdam The Netherlands & The Princess Maxima Centre For Paediatric Oncology Utrecht. The Netherlands.	Andrea Biondi Professor University of Milano-Biococa Milan, Italy
9	Onyekwelu E.U.	Acute Myeloid Leukaemia. & Myelodysplasias 27/10/2005	Primary immunodeficiency diseases models for understanding The immune response to infection and immunity.	A. Fischer Professor Department of Behavioural Sciences&Health University College London .UK	Andrea Biondi Professor University of Milano-Biococa Milan, Italy

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	<b>Teaching Course Participant</b>	<b>Teaching Course Title Date</b>	<b>Teaching Course Sub-Title</b>	<b>Teaching Course Tutor &amp; Coordinates.</b>	<b>Teaching Course Chairman &amp; Coordinates.</b>	
10	Onyekwelu E.U.	Bone Marrow Failures & Stem Cells Transplants 28/10/2005.	Diamond-Blackfan Anaemias	Ch.Niemeyer Department of Paediatrics. Division of Haematology University of Aarhus Denmark	Karl Welte.  Pädiatrische Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.	
11	Onyekwelu E.U	Bone Marrow Failures & Stem Cells Transplants 28/10/2005	Congenital Thrombocytopaenia	M.Ballmaier Professor Department of Paediatrics Department of Haematology & Oncology Medical School. The University of Hannover Germany.	Karl Welte Professor Pädiatrische Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.	
12	Onyekwelu E.U	Bone Marrow Failures & Stem Cells Transplants 28/10/2005	Severe Congenital Neutropaenias I	C.Zeidler Professor University of Crete, Medical School Haemopoiesis Research Laboratory Crete Greece	Karl Welte Professor Pädiatrische Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.	
13	Onyekwelu E.U	Bone Marrow Failures & Stem Cells Transplants 28/10/2005	Severe Congenital Neutropaenias II	J.Donadieu Professor Hopital Trousseau Assistance publique des	Karl Welte Pädiatrische Professor Hamatologie und Onkologie Medizinische	

				hospitaux de Paris.France.	Hochschule Hannover Germany.
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Italy. and The European Association of Haematology (EAH) 2005 Sestra Leventi  
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Portebello, 1416039 Sestri Levante (Genoa) Italy.**

	Teaching Course Participant	Teaching Course Title Date	Teaching Course Sub-Title	Teaching Course Tutor& Coordinates.	Teaching Course Chairman& Coordinates.
14	Onyekwelu.E.U.	Bone Marrow Failures& Stem Cells Transplants 28/10/2005	Schwachman- Diamond- syndrome	O.Smith Professor Department of Paediatric Haematology St Loius Hospital Paris France.	Karl Welte Professor Padiatrischje Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.
15	Onyekwelu.E.U.	Bone Marrow Failures& Stem Cells Transplants 28/10/2005	Lymphoid Deficiencies	Ch.Klein Professor University of Szegard. Department of Biotechnology Szegard Hungary.	Karl Welte Professor Padiatrischje Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.
16	Onyekwelu.E.U.	Bone Marrow Failures& Stem Cells Transplants	Gene Therapy in Bone Marrow Failures.	Ch.Baum Max Debruck Professor Centre for Molecular	Karl Welte Professor Padiatrischje Hamatologie und Onkologie Medizinische Hochschule Hannover

		28/10/2005		Medicine in The Helmholz Association Berlin Germany.	Germany.	

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	Teaching Course Participant	Teaching Course Title Date	Teaching Course Sub-Title	Teaching Course Tutor& Coordinates.	Teaching Course Chairman & Coordinates.	
17	Onyekwelu. E.U.	Haemopoetic Stem Cell Transplantation (SCT) 28/10/2005	Stem Cell Transplantation (SCT)For Myelodysplastic syndromes.	Ch.Niemeyer Professor Department of Paediatric Haematology and Oncology Faculty of Medicine University of Freiburg Germany.	Irene Roberts. Professor Department of Paediatrics and MRC Molecular Haematology Unit Weatherall Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical	

					Centre Oxford.UK.	
18	Onyekwelu. E.U.	Haemopoetic Stem Cell Transplantation 28/10/2005	Haplo-identical transplantation In children.	P.Darbyshire Professor Department of Haematology Birmingham Children's Hospital Birmingham UK	Irene Roberts Professor Department of Paediatrics and MRC Molecular Haematology Unit Weatherall Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	
19	Onyekwelu. E.U.	Haemopoetic Stem Cell Transplantation 28/10/2005	Cord blood transplantation: actual results and new perspectives.	F.Locatelli Professor Department of Haematology &Oncology And stem cell Transplantation.Bambino- Gesu childrens Hospital.IRCCS Rome Italy.	Irene Roberts Professor Department of Paediatrics and MRC Molecular Haematology Unit Weatherall Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	
20	Onyekwelu. E.U.	Haemopoetic Stem Cell Transplantation 28/10/2005	Innovative approaches of cell therapy to restore or exploit immunity against pathogens or tumour cells after SCT.	F.Locatelli Professor Cancer Epidemiology Unit University of Torino Italy.	Irene Roberts Professor Department of Paediatrics and MRC Molecular Haematology Unit Weatherall Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	
21	Onyekwelu. E.U.	Haemopoetic Stem Cell Transplantation 28/10/2005	Supportive care in HSCT.	C.Peters Professor Division of Haematology /Oncology Queens University Toronto, Ontario Canada.	Irene Roberts Professor Department of Paediatrics and MRC Molecular Haematology Unit	

					Weatheral Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	
22	Onyekwelu. E.U.	Haemopoetic Stem Cell Transplantation 28/10/2005	Choosing a donor	P.Darbyshire F.Locatelli Ch.Niemeyer C.Peters	Irene Roberts Professor Department of Paediatrics and MRC Molecular Haematology Unit Weatheral Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	
23	Onyekwelu. E.U.	Haemopoetic Stem Cell Transplantation 28/10/2005	G6PD deficiency: Pathogenesis and Management.	L. Luzzatto Cancer Epidemiology Unit University of Torino Italy.	Irene Roberts Professor Department of Paediatrics and MRC Molecular Haematology Unit Weatheral Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	

**Some Illustrious and Relevant Teaching Courses Attended with Participant Certifications Entitled Second ESH European School of Haematology (ESH) European School of Haematology (ESH) INSTITUT.UIVERSITAIRE.DE.HEMATOLOGIE ET.The.Institute.de.Recherche.Sur.Les.Leucemies.et.Les.Maladies.Du.Sang.Centr e.Hayem, Hopital.Saint-Louis-1.avenue.Claude-Vellefaux, 75475.Paris.Cedex.10, France and The European Association of Haematology (EAH) 2005 Sestra Leventi Italy. and The European Association of Haematology (EAH) 2005 Sestra Leventi Italy.**

**-EHA Conference On Focus On Paediatric Haematology-Oncology Held At The  
Fondazione Mediaterraneo, Centro Di Congresso, Palazzo Negrotto Cambioso-Via  
Portebello, 1416039 Sestri Levante (Genoa) Italy.**

	<b>Teaching Course Participant</b>	<b>Teaching Course Title Date</b>	<b>Teaching Course Sub-Title</b>	<b>Teaching Course Tutor&amp; Coordinates.</b>	<b>Teaching Course Chairman &amp; Coordinates.</b>	
24	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	Von Willebrands disease.	Paula Bolton- Maggs. Professor Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	Paula Bolton-Maggs. Professor Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	
25	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	Inhibitors in Haemophilia.	Paula Bolton- Maggs.	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	
26	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	Problems with CVAD	Paula Bolton- Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	
27	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science	Management of Haemophilia in the New Born.	Paula Bolton- Maggs. Serious Hazards Transfusion	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester	

		29/10/2005		UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	Blood Centre. Manchester.UK.	
28	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	Screening and treatment of thrombotic disorders DIC.	Paula Bolton- Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	
29	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	Anticoagulation in neonates and children.	Paula Bolton- Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	
30	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	Veno- Occlusive disease	Paula Bolton- Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	
31	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	Rare Factor deficiencies.	Paula Bolton- Maggs. Serious Hazards Transfusion UK Haemovigilance	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	

				Scheme Manchester Blood Centre. Manchester.UK.		
32	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	Investigation of easy bruising.	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	
33	Onyekwelu. E.U.	Difficult Problems in Haemostasis &Thrombosis /Translational Science 29/10/2005	ITP	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	Paula Bolton-Maggs. Serious Hazards Transfusion UK Haemovigilance Scheme Manchester Blood Centre. Manchester.UK.	

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**INSTITUT.UIVERSITAIRE.DE.HEMATOLOGIE**

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	<b>Teaching Course Participant</b>	<b>Teaching Course Title Date</b>	<b>Teaching Course Sub-Title</b>	<b>Teaching Course Tutor &amp; Coordinates.</b>	<b>Teaching Course Chairman &amp; Coordinates.</b>	
34	Onyekwelu. E.U.	Science to the Clinic	RNA interference– a new option for gene therapy	A .Borkhardt. Professor Henrich Heine University of Dusseldorf Germany.	Karl Welte. Professor Padiatrischje Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.	
35	Onyekwelu. E.U.	Science to the Clinic	The CD95 system: apoptosis pathway for therapeutic intervention?	K.M.Debatin. Professor Department of Paediatrics & Adolescent Medicine University Medical Centre Ulm Germany.	Karl Welte. Professor Padiatrischje Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.	
36	Onyekwelu. E.U.	Science to the Clinic	Dendritic cell development-new options for immune System modulation?	M.Manz. Professor Haematology, University Unit University Hospital Zurich & University of Zurich Switzerland.	Karl Welte. Professor Padiatrischje Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.	
37	Onyekwelu. E.U.	Science to the Clinic	What the leukaemias of Down syndrome teach us about haematopoiesis, leukaemogenesis And pharmacogenomics?	S.Izraeli. Professor Department of Paediatric Haematology-Oncology. Safra Childrens Hospital Schneider Childrens Hospital	Karl Welte. Professor Padiatrischje Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.	

				Schneider Isreal.		
38	Onyekwelu. E.U.	Science to the Clinic	When a child dies	M.Jankovic. Professor Paediatric Department San Gerado Hospital. University of Milano-Bicocci Fondazione MBBM Monza Italy,	Karl Welte Professor Padiatrischje Hamatologie und Onkologie Medizinische Hochschule Hannover Germany.	

**Some Illustrious and Relevant Teaching Courses Attended with Participant Certifications Entitled Second ESH European School of Haematology (ESH) European School of Haematology (ESH)**

**INSTITUT.UIVERSITAIRE.DE.HEMATOLOGIE**

**ET.The.Institute.de.Recherche.Sur.Les.Leucemies.et.Les.Maladies.Du.Sang.Centr e.Hayem, Hopital.Saint-Louis-1.avenue.Claude-Vellefaux, 75475.Paris.Cedex.10, France and The European Association of Haematology (EAH) 2005 Sestra Leventi Italy. and The European Association of Haematology (EAH) 2005 Sestra Leventi Italy.**

**-EHA Conference On Focus On Paediatric Haematology-Oncology Held At The Fondazione Mediaterraneo, Centro Di Congresso, Palazzo Negrotto Cambioso-Via Portebello, 1416039 Sestri Levante (Genoa) Italy.**

	Teaching Course Participant	Teaching Course Title Date	Teaching Course Sub-Title	Teaching Course Tutor& Coordinates.	Teaching Course Chairman & Coordinates.	
38	Onyekwelu. E.U.	Red Blood Cell Disorders Haemolytic anaemias	Haematological Features of Thalasaemias and sickle cell disease	Barbara Bain Professor Department of Haematology St.Marys Hospital London.UK	Irene Roberts Professor Department of Paediatrics and MRC Molecular Haematology Unit Weatheral Institute of	

					Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	
39	Onyekwelu. E.U.	Red Blood Cell Disorders Haemolytic anaemias	Management problems in haemoglobinopathies	P.Darbyshire. Professor Department of Haematology Birmingham Children's Hospital Birmingham UK.	Irene Roberts Department of Paediatrics and MRC Molecular Haematology Unit Weatherall Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	
40	Onyekwelu. E.U.	Red Blood Cell Disorders Haemolytic anaemias	Red cell membrane disorders	A.Lolascon Professor Department of Molecular Medicine and Medical Biotechnologies, Federico University of Naples Italy LENGE Biotechnologie, Avazate,Naples, Italy	Irene Roberts Department of Paediatrics and MRC Molecular Haematology Unit Weatherall Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	

41	Onyekwelu. E.U.	Red Blood Cell Disorders Haemolytic anaemias	Monitoring and Treatment of iron overload	R.Galanello. Professor Ospedale Regionale per la Micoatemia Cagliari Italy.	Irene Roberts Department of Paediatrics and MRC Molecular Haematology Unit Weatheral Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	
42	Onyekwelu. E.U.	Red Blood Cell Disorders Haemolytic anaemias	Conclusions of the course	A.Biondi I. Roberts K. Welte	Irene Roberts Department of Paediatrics and MRC Molecular Haematology Unit Weatheral Institute of Molecular Medicine Oxford. University and BRC Blood Team.NHR Oxford Biomedical Centre Oxford.UK.	

### **Academic Clinical Research Investigations and Training .2006 to 2012.**

Educational Assessor, Examiner,  
Mentor.Guest.Academic.Waden.and.Guest.Professorships.in.several.Health.  
Institutions.in.Europe. and-North.Africa

Intramural and Extramural Attending Pediatrician and Physician to National, Regional and International University Affiliated and Independent Teaching, Academic and Research Health Institutions.

With five day weekly subspecialty consultations in these health institutional associated Multidisciplinary and Interdisciplinary Subspecialty Clinics

Adult&Paediatric Dermatology, Adult&Paediatric Neurology& Psychiatry, Adult and Paediatric Haematology and Oncology.

Adult and Paediatric Endocrinology& Metabolic Disorder, Adult and Paediatric Palliative Care.

Adult and Paediatric Nephrology, Adult and Paediatric Cardiology, Adult and Paediatric Pulmonology.

Adult and Paediatric Emergency Medicine, Childs Environmental and Community Public Health in addition to Adult and Preventive and Social Paediatrics.

During these periods, intensive and extensive didactic, pedagogic academic, research and clinical activities were undertaken contemporaneously in tandem which led to extramural Academic Clinical Research Fellowships, trainings, courses, workshops, conferences. congresses, symposia regionally and overseas with seminal medical scientific publications in peer reviewed Journals in addition to Certifications, Fellowships and Memberships of several academic and professional Colleges and Societies, following successes in their various peer administered and managed examinations following continual formative and summative assessments and written and oral interviews.

Elected an Active Contingent Faculty Member of The American Association of University Professors (AAUP) USA.

Elected an Active Member of the Association of Professors of Human and Medical Genetics (APHMG).U.S.A.

**Some Illustrious and Relevant Teaching Courses Attended with Commemorative-Participant Certificates-Awarded.**

	Teaching Course Participant	Teaching Course Title Date & Venue	Teaching Course SubTitle	Teaching Course Tutor&Co-ordinates.	Teaching Course Director.	
1	Onyekwelu.E.U.	Treatment of Epilepsy Basic Clinical Knowledge. Teaching Course 9 Hall C HungExpo	Diagnosis and Treatment of Status Epilepticus.	Eugen Trinkla Christian Doppler Klinik Paracelsus Privatuniversitat Department of	Federico Vigevano, Rome, Italy	

		15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011		Neurology Ignaz-Harrer- StraBe-79 5020 Salzburg Austria		
2	Onyekwelu.E.U.	Treatment of Epilepsy Basic Clinical Knowledge. Teaching Course 9 Hall C HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011	Initiation and discontinuation of antiepileptic drugs	Antonio Gil-Nagel Professor of Neurology Hospital Ruber Internacional Programa de Epilepsia C.La Maso 38 Mirasierra 28034 Madrid Spain	Federico Vigevano, Rome, Italy	
3	Onyekwelu.E.U.	Treatment of Epilepsy Basic Clinical Knowledge. Teaching Course 9 Hall C HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011	Therapy according To seizure and syndromic classification	Federico Vigevano Ospedale Bambino Gesù Department of Neurology Piazza Sant Onofrio 400165 Rome Italy	Federico Vigevano, Rome, Italy	
4	Onyekwelu.E.U.	Treatment of Epilepsy Basic Clinical Knowledge. Teaching Course 9 Hall C HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011	Combining antiepileptic drugs	Martin J.Brodie Epilepsy Research Unit Gardiner Institute European Epilepsy Society Western Infirmary G11 6NT Glasgow United Kingdom	Federico Vigevano, Rome, Italy	

**Some Illustrious and Relevant Teaching Courses Attended with Commemorative-Participant Certificates-Awarded.**

Teaching	Teaching Course	Teaching Course	Teaching Course	Teaching	
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	<b>Course Participant</b>	<b>Title Date &amp; Venue</b>	<b>SubTitle</b>	<b>Tutor&amp;Co-ordinates.</b>	<b>Course Director.</b>	
5	Onyekwelu. E.	Advanced aspects of Epilepsy for the Clinician. Teaching Course 10 Hall C HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011	Cognitive problems in epilepsy.	Christoph Helmstaedter Professor of Neurology University Clinic of Epileptology Bonn, Germany Freud-StraBe 25 53105 Bonn Germany	Philippe Ryvlin Lyon, France	
6	Onyekwelu. E.	Advanced aspects of Epilepsy for the Clinician. Teaching Course 10 Hall C HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011	Brain Imaging of Epilepsy for the clinician.	Hermann Stefan. Professor of Neurology Universitätsklinikum Erlangen Neurological Clinic Epilepsy Centre Schwabachanlage 10 91054 Erlangen Germany	Philippe Ryvlin Lyon, France	
7	Onyekwelu. E.	Advanced aspects of Epilepsy for the Clinician. Teaching Course 10 Hall C HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011	Relevant genetic testing in epilepsy.	Jose M Serratos. Fundacion Jimenez Diaz Department of Neurology Avda Reyes Catolicos,2 E-28040 Madrid Spain	Philippe Ryvlin Lyon, France	
8	Onyekwelu. E.	Advanced aspects of Epilepsy for the Clinician. Teaching Course 10 Hall C HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011	Surgery in temporal Lobe epilepsy.	Philippe Ryvlin Department of Functional Neurological Research CHU Lyon, Hopital Pierre Wertheimer 59 Bld.Pinel 69003 Lyon France.	Philippe Ryvlin Lyon, France	

**Some Illustrious and Relevant Teaching Courses Attended with Commemorative-Participant Certificates-Awarded.**

<b>Hands on Course Teaching Course Participant</b>	<b>Hands on Course Teaching Course Title Date &amp; Venue</b>	<b>Teaching Course Tutors Directors &amp; Co-ordinates</b>	
Onyekwelu.E.	Hands-on course on clinical neurophysiology-electromyography(EMG) and nerve conduction studies(NCS) Teaching Course 22 Hall E HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary 11 <sup>th</sup> September 2011	Reinhard Dengler. Professor of Neurology Medizinische Hochschule Hannover Carl-Neuberg-Straße 8 30625 Hannover Germany.	
Onyekwelu.E.	Hands-on course on clinical neurosonology Hall H HungExpo 15 <sup>th</sup> Congress of The EFNS Budapest Hungary September 2011,	Manfred Kaps Professor of Neurology. Justus Liebig Universität Gießen Department of Neurology Am Steg 14 35385 Gießen Germany.	

In addition to participation in the other invited and gratis lectures and satellite symposium at the HungExpo 15<sup>th</sup> Congress of The EFNS Budapest Hungary September 2011.

**Please See Portfolio of Academic, Clinical and Research Training and Publications List FOR OTHER DETAILS..**

**Independent Medical Scientific Scholar & Clinician 1998 to 1999.**

**Independent Medical Scientific Scholar & Clinician,**

Clinician, Author, Principal Lecturer, Editor and Publisher of evidence Based Medicine for several notable Medical Journals, Periodicals and Affiliated Health institutions in The Gambia and Beyond,

**OVERSEAS ROTATIONS IN THE UK AND BRITISH ISLES. (1996-1997)**

Between 1996 to 1997 I spent significant study days for mentored observational clerkships, perceptorships and trainings at the North Middlesex Teaching Hospital



London .United Kingdom and several other notable hospitals, academic health institutions and Surgeries in England & Wales, Edinburgh, Glasgow and Dundee in Scotland in addition to major centres in Northern Ireland, Republic of Ireland and the rest of the British Isles.

### **NATIONAL YOUTHS SERVICE CORPS IN NIGERIA.(1995-1996)**

Between 1995 and 1996 .I underwent my National Youths Service Corps (NYSC) Programme Training, in Ondo State Nigeria. as an NYSC Medical Corps Doctor.

### **CORE MEDICAL SPECIALTY ROTATING INTERNSHIPS & HOUSMANSHIPS 1993 to 1995**

I underwent and successfully completed my internship and housemanship trainings at the Nnamdi Azikiwe University Teaching Hospital in Nnewi Anambra State &The University of Nigeria Teaching Hospital Enugu, Enugu State both in Nigeria.

Rotating through the core medical specialties of General Internal Medicine&Therapeutics, Paediatrics&Child Health, Obstetrics &Gynaecology & Reproductive Medicine and General Surgery in addition to the pivotal subspecialties components of these Core medical disciplines.

During this period I undertook and achieved the United States Medical Licensing Examination in both the Basic Medical and Clinical Sciences (Steps One (I) and Two (II).

- In addition to the Educational Commission For The Foreign Medical Graduates (E.C.F.M.G) English Language Test.

### **UNDERGRADUATE MEDICAL EDUCATION IN NIGERIA.(Oct. 1986-Jan 1993)**

Faculty of Medical Sciences The University of JOS Medical School and the JOS University Teaching Hospital (JUTH) Jos Plateau State Nigeria.) graduated in January 1993

### **HIGHER SECONDARY EDUCATION IN NIGERIA. (1985-1986)**

Federal Government College Enugu, Nigeria.

Achieved the Joint matriculation examination board. (JME) Intermediate Level Examination in Physics, Chemistry, Biology, Mathematics&English Language for university entrance into Medicine and Surgery degree programme.

Won and Was Awarded The Continental European &The Eastern European Bureau For External Aids Scholarship For Undergraduate Medical Studies In Romania, Bulgaria, Hungary OR Austria.

### **SECONDARY SCHOOL EDUCATION IN NIGERIA.(1979-1985)**

Dennis Memorial Grammar School Onitsha Anambra State Nigeria.  
Achieved the General Certificate of Education and West African Examination Council.  
Examinations with Distinction. Seven Alphas and One Credit.

### **Early Primary Education (1973-1976)**

Central Primary School Amaifeke, Orlu East Central State. Nigeria. West Africa.

### **Later Primary Education (1977-1979):**

Central Primary Schools in Odoata & Eziani. Ihiala. Anambra State. Nigeria West Africa

(1977-1978)

Woliwo Primary School. Onitsha, Anambra State Nigeria West Africa

(1978-1979)

Achieved the First School Leaving Certificate Examination.

Achieved the Common Entrance Examination Certificate.

### **Birth, Creche, Kindergarten and Nursery School Education in Nigeria. 1969-1972.**

Born and Breed in Ihiala East Central State Nigeria , West Africa during the unification war, had Creche, Kindergarten and Nursery Education in Achina, Onitsha and Umuahia in East Central State, Nigeria. West Africa.

### **References:**

### **References:**

Prof. Lucio Pollice. MD, PhD-Emeritus Professor and Chairman-Instituto di Anatomia Patologica

Sezione di Anatomia Patologica-Dipartimento di Anatomia e di Genetica -Facolta di Medicina

Universita degli Studi Bari-Bari-Italy

Prof. J.M Oli.

Professor of Medicine

Affiliations:-College of Medicine, University of Nigeria Teaching Hospital, Enugu Nigeria

Visiting Research Professor Genetic Studies NIH National Institutes of Health

Bethesda Maryland 20892. USA.

Prof. R.A Adegbola .PhD, FRCPATH, FRCP, FAS.

Honorary Visiting Professor -Department of Infection, Immunity and Inflammation.

University of Leicester England UK&Senior Program Officer -Infectious Diseases Global Health Program Gates Foundation Seattle W.A 98102 U.S.A -Formerly Professor & Head Bacterial& Infectious Diseases Research Programme-UK Medical Research Council The Gambia.

Consultant and Research Professor at the Nigerian Institute of Medical Research. Independent Consultant in Immunisation and Global Health at RAMBICON, Lagos. Scientist for the epidemiology and prevention of Hib and pneumococcal diseases as a matter of public importance in which Hib conjugate vaccines have been introduced. Visiting Professors to several Universities in Nigeria and beyond .

Scientific member of the World Health Organization's Meningitis Vaccine Project Advisory Group.

Vice Chair of the European and Developing Countries Clinical Trials Partnership Board. Scientific member of the WHO Africa Regional Immunization Technical Advisory Group (RITAG)

Trustee of the Expanded Civil Society Initiative on Immunization in Nigeria.

Global Director, Scientific Affairs & Public Health @ GlaxoSmithKline Biologicals.

Senior Program Officer & Lead for Pneumonia Clinical Studies @ Bill & Melinda Gates Foundation.

Scientific Expert in Global Health, Infectious Diseases, Public Health, Infections in the tropics and Vaccination Implementation, Vaccine Trials, Vaccine Effectiveness Studies, High level negotiations with governments and NGO's.

Scientific Member of International Scientific Coordinating Committees.

Scientific Member & Vice Chair EDCTP Board, The Hague,

Scientific Expert in Vaccines, Clinical Trials, Microbiology, Lifesciences, Biostatistics, Clinical Research, Science, Molecular Biology, Immunology, Research, International Health, Biotechnology, Flow Cytometry, Medicine, ELISA.

Dr.Charles Ibe.-DVM&Fellow of The College Of Veterinary Surgeons.

Formerly President Of The College Of Veterinary Surgeons (Nigerian Chapter)

Consultant Scientific Veterinarian and CEO. Vet Konsults Ltd/ Blue Bat Company Nigeria Ltd.

Dundee- Scotland.United Kingdom &Kaduna , Kaduna State Nigeria.

### **Dr.Ifeanyi Ojuro. FRCS.**

Consultant Surgeon&Chairman of the Board of Directors

Calder Hall Medical Centre.(CHMC)

38 Calder Hall Road

Scarborough

Tobago

(Trinidad and Tobago W.I.)

E-mail: ifeanyioruro@hotmail.com

Tel - (868) 660 7873

Professor Hassan Azadeh.MD.

University of The Gambia.

Professor&Consultant

Currently AT The University Of The Gambia. School Of Medicine &Allied Health Sciences Edward Francis Small University Teaching Hospital.BanjulThe Gambia.West Africa.

Formerly The Royal Victoria University Teaching Hospital, Banjul The Gambia.West Africa.

Chief Executive Officer&Chief Medical Director.

Medicare Health Services, Laboratories& Pharmacy. The Gambia.

Chair&Head Of Obstetrics &Gynaecology

Department Of Obstetrics&Gynaecology At The American International University.Banjul.The Gambia.West Africa.

Formerly Consultant Obstetrician&Gynaecologist.

Birmingham's Women's Hospital Birmingham.England.UK.

Formerly Scientific Research Clinician.Infectious Diseases&Genito-Urinary Clinic.Medical Research Council .The Gambia.West Africa.

Formerly,World Health Organisations Safe Motherhood International Scientific Technical Expert Seconded To The Royal Victoria University Teaching Hospital Banjul The Gambia.West Africa.

### **A CONCISE DESCRIPTION OF MY EDUCATIONAL ASSESMENT**

#### **,EXAMINATION,MENTORING,PEDAGOGIC ,SCIENTIFIC AND DIDACTIC ACTIVITIES IN ANATOMICAL SCIENCES.**

Currently, I teach, assess,examine and mentor students in anatomical sciences,human biology, pathological sciences,pathobiological sciences ,genetics, therapeutics,pharmacology,pathophysiology,comparative and human anatomical sciences , embryology, histology and their applied biological sciences of accident and emergency medical ,surgical sciences etc in addition to the historiographic scientific aspects of these themes.

I have authored,edited,reviewed and published several main stream and grey literature journal articles,books,booklets and monographs etc in Anatomical Sciences such as but not confined to: [1] A precises anatomical data for the Gastrointestinal System [2]-A precises anatomical data for the Hepatobiliary sytem[3]-A precises anatomical data for the Neurological System [4]-A precise anatomical data for the Cardiovascular System [5]-A Precise Anatomical Data For The Pulmonary System'[6]-A precises anatomical data for the Endocrinological system

[7]-A precises anatomical data for the Immunological System [8]-A precises anatomical data for the Dermatological and Intergumentary System [9]-A precises anatomical data for the Reproductive System [10]-A precises anatomical data for the Musculoskeletal System.

In addition to several thematic aspects of Splanchnology etc.

**COURSE TITLE:**

**EMBRYOLOGY AND HISTOLOGY.**

**Course Description**

This course deals with basic thematic aspects of Human topographical and Applied Embryology and Histology their employ in the appreciation and evaluation of common Pathological ,Paediatric,Medical,Surgical ,Gynaecological and obstetrics conditions in a unified and synoptic framework to direct apposite diagnostic, prophylactic and therapeutic interventions.

**Learning Outcomes/ Objectives**

At the end of the course, the student of Anatomical Sciences will be able to;

Appreciate and explore the basic topographical developmental and functional microscopic anatomical concepts to localise the common symptomatology of patients in order to expedite initial diagnostic and therapeutic interventions to facilitate prompt referral where appropriate.

Apply the knowledge of topographical developmental and functional microscopic Anatomy to facilitate the acquisition of skills for basic clinical procedures in a routine, exigent, urgent and emergent clinical setting.

Employ the knowledge of developmental anatomy or embryology to appreciate and comprehend the basic processes of human development from conception through the embryonic and fetal periods until birth, and in this way appreciate how,when,where and why things go wrong in the common congenital malformations.

Comprehend and extrapolate the knowledge of Histology or functional microscopic Anatomy to appreciate how nature very closely matches structure to function and how these consistencies could be modified or lost in some physiological or pathological conditions.

### **Course Content&Description**

The Essence of Human Embryology

The Essence of the Bilaminar Germ Disc Layer.

The Essence of Trilaminar Germ Disc Layer

The (Development)of Trilaminar Germ Disc Layer

The Embryonic Period (Derivatives of The Ectodermal Germ Layer).

The Embryonic Period (Derivatives of the Mesodermal Layer).

Derivatives of the Endodermal Germ Layer.

Derivatives of the Endodermal Germ Layer. (During further development the endodermal germ layer gives rise to the:

The Embryonic Period from The (Third to The Eight Week)

The Embryological Aspects of the Skeletal System.

The Embryological Aspects of the Skeletal System (The Skull)

The development of the diaphragm. The elements contributing to the diaphragm include:

The development of the diaphragm.

The Embryology and The Histological Structure OF The Trachea.

The embryological development of the heart (Essense and Process)

The embryological development of the heart (Essense and Process)

The fetal circulation (Essense and Transition at Birth)

The fetal circulation (Essense and Transition at Birth) and Applied Anatomy.

The Development of the oesophagus.

The development of the gastro-intestinal system.

The gastrointestinal adnexae, liver, gall-bladder and its ducts, pancreas and spleen.

The Development of The Pancreas

The embryology and congenital abnormalities of the kidney and ureter

The embryology of the fallopian tubes, uterus and vagina.

The Characterization and the description the structural components of the

The Bilaminar germ disc layer:

The Trilaminar germ disc layer.

The categorization and the description of the germ layer origin of all the cells, tissues, and organs systems of the body, and an annotation on their basic structural and functional units.

The embryological basis for the formation of an anomalous congenital Sacrococcygeal Teratoma and other congenital Teratomas.

To characterize with suitable examples a Teratoma and what are the possible anatomical and histological structures that could be seen in a Teratoma during operative surgical interventions.

With the aid of a diagrammatical representation to itemise and discuss the temporal sequence of the Functional microscopic, topographical developmental and applied developmental anatomical events that take place during the formation of the cardiac and vascular system.and their common developmental anatomical defects.

To itemise and characterize the components of Tetralogy of Fallot and their embryological basis.

To itemise and discuss the temporal sequence of events that take place during the formation of the ©-the arterial system (d) - the venous system (e) - the lymphatic system and their common developmental anatomical defects. (f)-Characterize and describe the embryonic haemoglobins.

With the aid of a diagrammatical representation to discuss the Functional microscopic and developmental anatomy of the Phrenic and the defects associated with its development.

To Define and Characterize the Foramen of Bochdalek defect and the Foramen of Morgagni defect.

To Define and characterize the topographical anatomical and applied anatomical defects in the Sliding Hiatus hernia and the rolling or paraoesophageal hiatus hernias.

With the aid of a diagrammatical representation to discuss the Functional microscopic and developmental anatomy of the lungs.

To characterize and define the structural and the functional microscopic anatomical component and the role of pulmonary surfactant.

To understudy ,what are the structural, topographical and functional microscopic defects associated with anomalous development of the Lungs?

To undertake with the aid of a diagrammatical representation discuss the Functional microscopic and developmental anatomy of the trachea.

To discuss the typology of the anomalous developmental defects of the trachea.

To understudy with the aid of a diagrammatical representation and, to discuss the Functional microscopic and developmental anatomy of the components of gastrointestinal system and adnexae (Pancrease, Liver, gallbladder and the spleen) and their possible associated congenital abnormalities.

To define and characterize the Meckels Diverticulum.

To describe the embryological basis for an omphalocele, a congenital volvulus, Left sided ascending colon, ano-rectal anomalies, Hirschsprung's disease (Aganglionic megacolon) etc.

To study and discuss with the aid of a diagrammatical representation the functional microscopic and developmental anatomy of the renal systems.



To itemise and annotate on the embryologic basis for congenital polycystic kidneys, ectopia vesicae, ectopic and bifid ureters, pelvic kidney, horseshoe kidneys, Marion's disease, Potters syndrome etc.

To discuss with the aid of a diagrammatical representation the functional microscopic and developmental anatomy of the male genital systems and the defects associated with it.

To discuss the embryological basis for: cryptorchidism and malpositioning of the male testes. Epispadias, Hypospadias etc.

To characterize the male gonadal aneuploidies with notable examples.

To discuss with the aid of a diagrammatical representation, the functional microscopic and topographical developmental and applied developmental anatomy of the male/female genital systems and their associated defects.

To characterize with notable examples, the male/female gonadal aneuploidies.

To comprehend the hormonal and genetic defects in the ambiguous genitalia of male and female infants.

To comprehend, the topographical, functional microscopic, developmental and applied Anatomy of The Thyroid Gland.

The topographical, functional microscopic, developmental and applied Anatomy of The Pituitary Gland.

Topographical, functional microscopic, developmental Anatomy of the sensory organs:

The Ears

The Eyes

The Tongue

The Nose. The Paranasal Sinuses.

The Larynx

To itemise, and comprehend, the typology ,examples and histological features of epithelia cells, cartilage, muscles tissue, bones .blood vessels, nervous tissues, neuroglial, microglia and an annotated diagrammatical representation of the basic functional and structural units of all the tissues and organ systems of the body etc.,

To comprehend, the topographical, functional microscopic, developmental anatomy of the Central Nervous System (The Brain and The Spinal Cord)

**Methods of Instruction:**

Digital Photographs, Light Microscopy, Electron Transmission Microscopy, Scanning Electron Transmission Microscopy Immunofluorescence Microscopy, Phase Contrast Microscopy, Immunohistochemistry, molecular-pathology, mutation-analysis cytogenetics, toxicology, Imaging Techniques such as Digital Camera, X-rays, (Computer Tomographic Scans (CT Scans), Magnetic Resonance Imaging Scans (MRIs), Nuclear-Medicine-Techniques, Spectroscopy, Spectrometry, Electrophoresis, Chromatography and intraoperative, cadaveric and autopsy procedures. etc.

Lectures

Tutorials

Discussion groups

Guest lectures

Projects (e.g. case studies, poster presentation, seminar presentation)

Reading of articles from relevant scientific journals

**Methods Of Course Assessment:**

Evaluation will be carried out in accordance with the Legacy university policy. The lecturer will present a written course outline with specific evaluation criteria at the beginning of the semester. Evaluation will be based on the following:

<b><u>Criteria</u></b>	<b><u>Marks</u></b>
Individual Works/Tasks	10
Class Tests	10
Class Assignments	10
Final Examination	70
TOTAL	100

**Pre-requisite courses:**

None

**Co-requisite course(s):**

None

**Recommended Reference Materials:**

Indexed Embryology and Histology Textbooks, Journals and Web.

**Course Description:**

This course deals with basic thematic aspects of human topographical and applied anatomy, embryology and histology their employ in the appreciation and evaluation of common Pathological Paediatric, Medical, Surgical, Gynaecological and obstetrics

conditions in a unified and synoptic framework to direct apposite diagnostic, prophylactic and therapeutic interventions.

### **Learning Outcomes/ Objectives**

At the end of the course, the student will be able to;

Appreciate and explore the basic topographical anatomical concepts to localise the common symptomatology of patients to expedite initial diagnostic and therapeutic interventions to facilitate prompt referral where appropriate.

Apply the knowledge of topographical Anatomy to facilitate the acquisition of skills for basic clinical procedures in a routine, exigent, urgent and emergent clinical setting.

Employ the knowledge of developmental anatomy or embryology to appreciate and comprehend the basic processes of human development from conception through the embryonic and fetal periods until birth, and in this way appreciate when and why things go wrong in the common congenital malformations.

Comprehend and extrapolate the knowledge of Histology or functional microscopic Anatomy to appreciate how nature very closely matches structure to function and how these consistencies could be modified or lost in some physiological or pathological conditions.

### **Topographical Anatomy:**

### **COURSE CONTENT&DESCRIPTION.**

#### **Course Aims & Objective:**

At the end of this course in Topographical Anatomy, the student of Anatomical Sciences will be able to comprehend the basics and fundamentals of:

The Topographical and Applied Anatomy of the Thoracic Cage.

The Topographical Anatomy of The Coarctation of the aorta in addition to its (Essence, Typology and Features)

The (Topographical Anatomy and Clinical features) of The Thoracic Cage with relevance to The intercostal spaces (Topographical and Applied Anatomy) And The thoracic cage Topographical and Applied Clinical Anatomy.

The Topographical Anatomy and The Applied Anatomy of The Diaphragm (The Phrenic)

The Topographical Anatomy and The Applied Anatomy of The development of the diaphragm with emphasis on the elements contributing to the development of the diaphragm.

The other aspects of the Topographical Anatomy and the Applied Anatomy of The Diaphragm (The Phrenic)

The Topographical Anatomy and the Applied Anatomy of Diaphragm (The Phrenic) with relevance to (its movements during respiration)

The (Applied and Topographical Anatomy) of the pleurae.

The (Topographical and Applied Anatomy) of the trachea.

The (Topographical and Applied Anatomy) of the bronchi.

The (Topographical and Applied Anatomy) of the lungs.

The (Topography and Applied Anatomy) of the bronchopulmonary segments of the lungs.

The (Topography and Applied Anatomy) of the mediastinum (Topography and Applied Anatomy)

The (Topographical and Applied Anatomy) of the pericardium.

The (Topographical and Applied Anatomy) of the heart.

The (Topographical and Applied Anatomy) of the chambers of the heart.

The (Topographical and Applied Anatomy) of the chambers of the heart with relevance to the Right ventricle.

The (Topographical and Applied Anatomy) of the chambers of the heart with relevance to the Left atrium.

The (Topographical and Applied Anatomy) of the Chambers of the heart, with relevance to the (Left ventricle).

The (Topographical and Applied Anatomy) of the heart with relevance to the conducting system of the heart.

The (Topographical and Applied Anatomy) of the heart with relevance to the blood supply to the heart.

The (Topographical and Applied Anatomy) of the heart with relevance to the venous drainage of the heart.

The (Topographical and Applied Anatomy) of the heart with relevance to its Nerve supply and impulsations.

The (Topographic and Applied Anatomy) of the thoracic duct and cisterna chyli.

The (Topographical and Applied Anatomy) of the thoracic sympathetic trunk.

The (Topographical and Applied Anatomy)-thoracic sympathetic trunk branches.

Topographical and Applied Anatomy of The Thorax (The appreciation of a chest radiograph) the following features should be examined in every radiograph of the chest.

The topographical and applied anatomy of the abdomen.

The topographical and applied anatomy of the abdomen with relevance to the (Abdominal Incisions)

The topographical and applied anatomy of The pudendal as a nerve which runs through the Alcock's canal (Pudendal Canal), a duplicature of the fascia of the: Internal obturator muscle.

The topographical and applied anatomy of The Muscles and Bones of The Upper and Lower Limbs and Important Anatomical Spaces.

To Outline the osteological and myological components of the human skeletal system and depict their significant components with their nervous impulsation and vascular supply.

With notable examples characterize the concepts of anatomical and surgical fractures.

To Define the topographical and applied anatomy of the following anatomical regions.

The topographical and applied anatomy of the triangle of auscultation.

The topographical and applied anatomy of The Brachial plexus.

The topographical and applied anatomy of the axillary region and the mammary gland.

The topographical and applied anatomy of The Cubital Fossa.

The topographical and applied anatomy of The Space of Parona.

The topographical and applied anatomy of The Carpal Tunnel.

The topographical and applied anatomy of The hand, pulp and web spaces of the hand.

The topographical and applied anatomy of The Scapular arterial anastomoses, the arterial supply and the venous and lymphatic drainages of the upper limbs.

The topographical and applied anatomy of The Scapular Rotator Cuff Muscles.

The topographical and applied anatomy of The muscles of the flexor and extensor compartments of the arm and forearm.

The topographical and applied anatomy of The Lumbricals and Interosseous muscles of the hand

The topographical and applied anatomy of The arterial arches of the hand

The topographical and applied anatomy of The Femoral Triangle.

The topographical and applied anatomy of The Inguinal Triangle of Hasselbach.

The topographical and applied anatomy of The Femoral Canal.

The topographical and applied anatomy of The Subsartorial Adductor Canal of Hunter.

The topographical and applied anatomy of The Inferior Lumbar Triangle of Petit.

The topographical and applied anatomy of the Superior Lumbar Triangle.

The topographical and applied anatomy of the Popliteal Fossa.

The topographical and applied anatomy of the Quadriceps Femoris group of muscles.

The topographical and applied anatomy of the Hamstrings Group of Muscles.®-

The topographical and applied anatomy of the Lumbar Plexus.

The topographical and applied anatomy of the sacral plexus.

The topographical and applied anatomy of the anterior and posterior groups of the muscles of the lower limb.

The topographical and applied anatomy of the Arterial blood supply and the arterial arches of the feet in addition to the venous and lymphatic drainages of the upper limbs, hands, lower limbs and the feet.

The topographical and applied anatomy of Lumbricals and Interosseous muscles of the feet.

## **Head and Neck Anatomy:**

The General Topography of The Neck.

The topographical and applied anatomy of Deep Cervical Fascia (Four Parts)

The topographical and applied anatomy of Investing Fascia, Prevertebral fascia, Pretracheal fascia and the Carotid Sheath.

The topographical and applied anatomy of the Tissue Spaces of The Neck.

The topographical and applied anatomy of the Prevertebral space, Retropharyngeal Space, Parapharyngeal space and the Submandibular Space.

The topographical and applied anatomy of the Triangles of The Neck (Boundaries, Muscles and Contents)

The topographical and applied anatomy of The Posterior Triangle of the Neck, The Occipital Triangle of the Neck ,The Subclavian Triangle of the Neck.

The topographical and applied anatomy of The Anterior Triangle of The Neck.  
(Boundaries, Muscles and Contents)

The topographical and applied anatomy of Submental Triangle (The Digastric Triangle  
The Carotid Triangle, The muscular triangle

The topographical and applied anatomy of The contents of the Posterior Triangle and  
The Sternocleidomastoid muscles, the Lymphnodes of the Posterior Triangle,  
Accessory Nerve and The Cervical Plexus

The topographical and applied anatomy of The inferior belly of the omohyoid, The  
transverse cervical vessels and the supraclavicular vessels, The third part of the  
subclavian artery and The external jugular vein

The topographical and applied anatomy of the Contents of The Posterior Triangle

The topographical and applied anatomy of The external jugular vein

The topographical and applied anatomy of The Levator Scapulae muscle.

The topographical and applied anatomy of The transverse cervical artery

The topographical and applied anatomy of The dorsal scapular nerve

The topographical and applied anatomy of the Scalenus posterior.

The topographical and applied anatomy of the Scalenus medius

The topographical and applied anatomy of the Scalenus anterior.

The topographical and applied anatomy of The Cervical Plexus:

The cervical plexus is a content of the posterior triangle.

The topographical and applied anatomy of the Dermatomes of the Neck.

The topographical and applied anatomy of The Anterior Triangle of The Neck

The topographical and applied anatomy of Suprahyoid Muscles.

The topographical and applied anatomy of Digastric Muscle, Stylohyoid, Mylohyoid and  
Geniohyoid.

The topographical and applied anatomy of INFRAHYOID MUSCLES:



The topographical and applied anatomy of Sternohyoid, Omohyoid, Thyrohyoid and Sternothyroid .

The Topographical and Applied Anatomy of The Thyroid Gland.

The Topographical and Applied Anatomy of The ParaThyroid Gland.

The Topographical and Applied Anatomy of The Trachea.

The Topographical, Functional Microscopic, developmental and Applied Anatomy of The Thyroid Gland.

The Topographical, Functional Microscopic, developmental and Applied Anatomy of the Uvula.

The topographical and applied anatomy of The Pituitary Gland. The Topographical, Functional Microscopic, developmental and Applied Anatomy of The Pharynx.

The topographical and applied anatomy of The Topographical, Functional Microscopic, developmental and Applied Anatomy of The Larynx.

The Topographical, Functional Microscopic, developmental and Applied Anatomy of The Gastrointestinal System and Adnexae.

The topographical and applied anatomy of The (The Cervical) Oesophagus.

The topographical and applied anatomy of The Carotid Sheath.

The topographical and applied anatomy of The Ansa Cervicalis.

The topographical and applied anatomy of The Suprahyoid Region.

The topographical and applied anatomy of The Platysma muscle..

The topographical and applied anatomy of the Anterior Jugular Veins.

The topographical and applied anatomy of Submental and submandibular lymphnodes.

The topographical and applied anatomy of the submandibular Fossa.

The Topographical and Applied Anatomy of The submandibular Gland.

The topographical and applied anatomy of the Great Vessels of The Neck.

The topographical and applied anatomy of the External Carotid Artery.

The topographical and applied anatomy of the superior the Thyroid Artery.

The topographical and applied anatomy of the Lingual Artery.

The topographical and applied anatomy of the Facial Artery.

The topographical and applied anatomy of the submental Artery.

The topographical and applied anatomy of the Occipital Artery.

The topographical and applied anatomy of the Posterior Auricular Artery.

The topographical and applied anatomy of the Ascending Pharyngeal Artery.

The topographical and applied anatomy of the Internal Carotid Artery.

The topographical and applied anatomy of the Internal Jugular veins.

### **The Topographical and Applied Anatomy Of Prevertebral Region.**

The topographical and applied anatomy of the Prevertebral Muscles of The Neck

The topographical and applied anatomy of the Rectus Capitis Anterior.

The topographical and applied anatomy of the Rectus Capitis Lateralis.

The topographical and applied anatomy of the Longus Capitis.

The topographical and applied anatomy of the Longus Colli.

### **The Topographical And Applied Anatomy Of CERVICAL SYMPATHETIC TRUNK.**

The topographical and applied anatomy of Cervical Part of the sympathetic trunk.

The topographical and applied anatomy of the Superior Cervical Ganglion.

The topographical and applied anatomy of the Middle Cervical Ganglion.

(The topographical and applied anatomy of the Inferior Cervical Ganglion.

The topographical and applied anatomy of the Stellate Ganglion or The Cervico-Thoracic Ganglion.

The topographical and applied anatomy of the Somatic, Visceral and Vascular Branches of the Cervical Sympathetic Trunk.

The topographical and applied anatomy of **the ROOT OF THE NECK.**

The Topographical, and Applied Anatomy of The Scalenus Anterior Muscles ,it's the anterior, medial, posterior and lateral relations.

The topographical and applied anatomy of Scalenus Medius Muscles.

The topographical and applied anatomy of Scalenus Posterior Muscles.

## **THE FACE.**

The topographical and applied anatomy of Skin of The Face.

The topographical and applied anatomy of Muscles of the Face (mainly sphincteric muscles from the panniculus carnosus without a deep fascia.)

The topographical and applied anatomy of the Muscles of the Eyelids.

The topographical and applied anatomy of the orbicularis oculi muscle (palpebral part)

The topographical and applied anatomy of the orbicularis oculi muscle (orbital part)

The Topographical and applied anatomy of the Levator palpebrae superioris.

The topographical and applied anatomy of the occipito-frontalis muscles.

The topographical and applied anatomy of the Muscles of The Nostrils

The topographical and applied anatomy of the Sphincter Muscles of the nostril.

The topographical and applied anatomy of the Compressor Naris

The Topographical and applied anatomy of the Dilator Naris.

The Topographical and applied anatomy of the Muscles of the Lips and Cheeks.

The topographical and applied anatomy of the Orbicularis Oris.

The Topographical and applied anatomy of The Buccinator.

The topographical and applied anatomy of The Dilator Muscles of the Lips

The topographical and applied anatomy of The Modiolus Muscle.

The topographical and applied anatomy of the Elevator Muscle fibres of the Lips.

The Topographical and applied anatomy of the Levator labii superioris alaeque nasi.

The Topographical and applied anatomy of the Levator Labii superioris.

The topographical and applied anatomy of the Levator anguli oris.

The Topographical and applied anatomy of the Zygomaticus Minor.

The topographical and applied anatomy of the Risorius muscle.

The Topographical and applied anatomy of the Depressor labii inferioris.

The Topographical and applied anatomy of the Nerve supply of the face muscles.

The topographical and applied anatomy of Posterior auricular branch of the Facial nerve which (supplies the occipital belly of occipito-frontalis)

A topographical and applied anatomy of muscular branch (supplies the posterior belly of digastric and stylohyoid muscle.

The topographical and applied anatomy of pes anserinus of the Facial nerve (A plexiform arrangement)

The topographical and applied anatomy of facial branches of the facial nerve.

Temporalis------(The)

Zygomatic branches. -----(Zebras)

Buccal Branches------(Brings)

Mandibular Branch (Marginal) -----(More)

Cervical Branch------(Crossings)

The topographical and applied anatomy of Sensory Nerve Supply of The Face.

The topographical and applied anatomy of Trigeminal Nerve. (Ophthalmic, Maxillary and Mandibular Branches)

The topographical and applied anatomy of Ophthalmic Nerve which (Has five cutaneous branches)

The topographical and applied anatomy of Lacrimal nerve.

The topographical and applied anatomy of supraorbital nerve.

The topographical and applied anatomy of infratrochlear nerve.

The topographical and applied anatomy of external nasal nerve.

The topographical and applied anatomy of Maxillary Nerve.(Has three cutaneous branches)

The Topographical and applied anatomy of Infraorbital nerve.

The Topographical and applied anatomy of Zygomaticofacial nerve.

The Topographical and applied anatomy of Zygomaticotemporal nerve.

The topographical and applied anatomy of Mandibular Nerve (Has three cutaneous branches)

The topographical and applied anatomy of the auriculotemporal nerve.

The topographical and applied anatomy of the buccal nerve.

The topographical and applied anatomy of the Mental Nerve.

The Topographical and applied anatomy of BLOOD SUPPLY OF THE FACE:

Topographical and applied anatomy of topographical and applied anatomy of Facial Artery.

Topographical and applied anatomy of Superior and Inferior Labial Artery.

Topographical and applied anatomy of Superficial Temporal Artery.

Topographical and applied anatomy of Transverse Facial Artery.

Topographical and applied anatomy of the supraorbital and supratrochlear branches of the ophthalmic artery.

The topographical and applied anatomy of the Venous Return From The face. (Usually entirely superficial)

The topographical and applied anatomy of the supra-orbital and supratrochlear veins

The topographical and applied anatomy of the angular veins.

The topographical and applied anatomy of the facial vein on accompanying the facial artery.

The topographical and applied anatomy of the facial vein noting that (Formerly the part above the retromandibular union was called anterior facial vein and the part below it the common facial vein.)

The Topographical and applied anatomy of the Tributaries of the superficial temporal vein.

The topographical and applied anatomy of the maxillary veins.

The topographical and applied anatomy of the pterygoid venous plexus.

The topographical and applied anatomy of the retromandibular vein

The Topographical and applied anatomy of the Anterior and posteriorretromandibular veins.

The topographical and applied anatomy of the Anterior retromandibular vein

The topographical and applied anatomy of the facial vein

The topographical and applied anatomy of the internal jugular vein.

The topographical and applied anatomy of the posterior retromandibular vein

The topographical and applied anatomy of the posterior auricular vein

The topographical and applied anatomy of the external jugular vein,

The topographical and applied anatomy of the subclavian vein.

The topographical and applied anatomy of the Deep Venous Anastomoses of The Face:

The topographical and applied anatomy of the Facial vein

The topographical and applied anatomy of the Cavernous Sinus.

The topographical and applied anatomy of the ophthalmic veins .

The topographical and applied anatomy of the Deep Facial Vein

The topographical and applied anatomy of angular veins

The deep facial veins .

The topographical and applied anatomy of the Lymphatic Drainage of The Face.(Mainly through three superficial Groups of Lymphnodes)

The topographical and applied anatomy of the Submental Nodes.

The topographical and applied anatomy of the Submandibular Nodes.

The topographical and applied anatomy of the Preauricular Group of Nodes.

The topographical and applied anatomy of the Deep Cervical Group of Lymphnodes is where they eventually drain to.

The topographical and applied anatomy of The Scalp.

The Scalp:

S-----Skin.

C-----Connective Tissue.

A-----Aponeurosis (Gela Aponeurotica)

L-----Loose connective Tissue.

P-----Periosteum.

The topographical and applied anatomy of the Forehead.

The topographical and applied Anatomy of The OccipitoFrontalis Muscle.

The topographical and applied anatomy of the Arteries of The scalp.

The topographical and applied anatomy of the occipital artery,

The topographical and applied anatomy of the posterior auricular artery,

The topographical and applied anatomy of the superficial temporal artery.

The topographical and applied anatomy of the external carotid artery,

The topographical and applied anatomy of the supraorbital and supratrochlear

The topographical and applied anatomy of the ophthalmic.

The topographical and applied anatomy of the Veins of The scalp.

The topographical and applied anatomy of the diploic veins from frontal, parietal and occipital bones.

The topographical and applied anatomy of the supraorbital vein and supratrochlear vein

The topographical and applied anatomy of the angular veins

The topographical and applied anatomy of the facial vein.

The topographical and applied anatomy of the superficial temporal veins

The topographical and applied anatomy of the retromandibular vein,

And the Occipital veins

The topographical and applied anatomy of the Venous plexus around the Semispinalis Capitis muscle

The topographical and applied anatomy of the posterior auricular vein

The topographical and applied anatomy of the mastoid emissary vein from the sigmoid sinus.

The topographical and applied anatomy of the Lymphatics of The Scalp.

The topographical and applied anatomy of the Nerve Supply of The Scalp.

The topographical and applied anatomy of the greater occipital and third occipital nerves (posterior rami of C2 and C3 respectively)

The topographical and applied anatomy of the lesser occipital nerve (anterior ramus of C2)

The topographical and applied anatomy of the auriculotemporal nerve and The Zygomaticotemporal nerve

The topographical and applied anatomy of the supratrochlear nerve and supraorbital nerve innervates the forehead and front of the scalp respectively.

The topographical and applied anatomy of the Temporal Fossa and The Zygomatic Arch.

The Topographical and Applied Anatomy of the Temporal Fossa.

The topographical and applied anatomy of the Zygomatic Arch

The topographical and applied anatomy of the Temporalis Fascia.

The topographical and applied anatomy of the Temporalis Muscle.

The topographical and applied anatomy of the parotid Region

The topographical and applied anatomy of the Masseter Muscle.

The Topographical and Applied Anatomy of The Parotid Gland.

The topographical and applied anatomy of the Infratemporal Region.

The topographical and Applied Anatomy of The Infratemporal Fossa.

The topographical and applied anatomy of the Boundaries of The Infratemporal Fossa.



The topographical and applied anatomy of the Contents of The Infratemporal Fossa.

The topographical and applied anatomy of the Medial Pterygoid Muscle.

The topographical and applied anatomy of the Lateral Pterygoid Muscle.

The topographical and applied anatomy of the insertion of the Temporalis Muscle into the Coronoid Process.

The topographical and applied anatomy of the Maxillary Artery and its Branches.

The topographical and applied anatomy of the Pterygoid Venous Plexus which drains into the Maxillary veins.

The topographical and applied anatomy of the Mandibular Nerve and its Branches.

The topographical and applied anatomy of the Otic ganglion.

The topographical and applied anatomy of the Chorda Tympani.

Topographical and applied anatomy of the Posterior Superior Alveolar Branches of the Maxillary Nerve.

Topographical and applied anatomy of The Sphenomandibular ligament.

Topographical and applied anatomy of The Mylohyoid nerve.

Topographical and applied anatomy of The Mylohyoid Artery.

Topographical and applied anatomy topographical and applied anatomy of The Mandibular Nerve(Branches):

Topographical and applied anatomy of The Meningeal Branch (or Nervus Spinosus).

Topographical and applied anatomy of The Nerve to The Medial Pterygoid Muscle.

Topographical and applied anatomy of The Mandibular Nerve (Branches from The Anterior Division):

Topographical and applied anatomy of The Deep Temporal Branches.

Topographical and applied anatomy of The Masseteric Nerve.

Topographical and applied anatomy of The Nerve to The Lateral Pterygoid Muscle.

Topographical and applied anatomy of The Buccal Nerve.

Topographical and applied anatomy of The Mandibular Nerve (Branches from The Posterior Division):

The topographical and applied anatomy of the Auriculotemporal Nerve.

The topographical and applied anatomy of the inferior alveolar nerve.

The topographical and applied anatomy of the Lingual Nerve.

The Topographical and Applied Anatomy of the Chorda tympani.

The Topographical and Applied Anatomy of the Otic Ganglion.

The topographical and applied anatomy of the Carotid Sheath and The Cranial Nerves:

The topographical and applied anatomy of the Glossopharyngeal Nerve(Branches).

The topographical and applied anatomy of the Inferior and Superior Ganglion of the Glossopharyngeal Nerve.

The topographical and applied anatomy of the Glossopharyngeal Nerve (Its Six Branches).

The topographical and applied anatomy of the tympanic branch (Jacobson's Nerve) of the Glossopharyngeal Nerve.

The topographical and applied anatomy of the motor branch to the Stylopharyngeus Muscle of the Glossopharyngeal Nerve.

Topographical and applied anatomy of the Carotid Sinus Nerve branch of the Glossopharyngeal Nerve.

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Topographical and applied anatomy of Pharyngeal branches of the Glossopharyngeal Nerve.(one or more pharyngeal branches join the pharyngeal nervous plexus.

The topographical and applied anatomy Tonsillar Branch of the Glossopharyngeal Nerve.

The topographical and applied anatomy Lingual Branch of the Glossopharyngeal Nerve.

The topographical and applied anatomy of the Central Connexions of the Glossopharyngeal Nerves.

The Topographical and Applied Anatomy of the Vagus Nerve.

The topographical and applied anatomy of the Superior and Inferior Ganglion of the Vagus Nerve.

The topographical and applied anatomy of the Vagus Nerve Branches in The Neck.

The topographical and applied anatomy of the Meningeal Branches of the Vagus Nerve.

The topographical and applied anatomy of the Auricular Branch of the Vagus Nerve.

The topographical and applied anatomy of the of Carotid Body Branch of the Vagus Nerve.

The topographical and applied anatomy of the Pharyngeal Branch of the Vagus Nerve.

The topographical and applied anatomy of the Superior Laryngeal Branch of the Vagus Nerve.

The topographical and applied anatomy of the Cervical Cardiac Branches of the Vagus Nerve.

The topographical and applied anatomy of the Recurrent Laryngeal Branches of the Vagus Nerve.

The topographical and applied anatomy of the Accessory Nerve Branches in The Neck.

The topographical and applied anatomy of the Cranial and Spinal Accessory Nerve roots in The Neck.

The topographical and applied anatomy of the cranial root fibres of the Accessory Nerve Branches which join the Vagus nerve.

The topographical and applied anatomy of the remaining cervical fibres giving off a branch to the Sternocleidomastoid Muscle.

The topographical and applied anatomy of the Nerve to the Trapezius Muscle.

The Topographical and applied anatomy of the Efferent proprioceptive fibres from the Trapezius muscle which reach the spinal cord in the ordinary way through the C2 and C3 for the Sternocleidomastoid and through the C3 and C4 for the Trapezium muscle respectively.

The topographical and applied anatomy of the Hypoglossal Nerve.

The Topographical and applied anatomy of the Ramus from the C1 nerve root component of the Hypoglossal nerve..

The Topographical and applied anatomy Non-lingual branches formed by hitch-hiking C1 fibres.

The Topographical and applied anatomy of the Small meningeal branch of the Hypoglossal nerve.

The Topographical and applied anatomy of The Hypoglossal nerve Branch to Ansa Cervicalis(Ansa hypoglossi) .

Topographical and applied anatomy of The Hypoglossal nerve Branches to Thyrohyoid and Geniohyoid muscles.

The topographical and applied anatomy Hypoglossal nerve Fibres to The muscles of the Tongue.

The topographical and applied anatomy of the Styloid Apparatus

The topographical and applied anatomy of the Styloid Process.

The topographical and applied anatomy of the Stylohyoid Ligament.

The topographical and applied anatomy of the stylopharyngeus Muscle.

The topographical and applied anatomy of the Styloglossus Muscle.

The topographical and applied anatomy of the Stylomandibular Ligament.

The topographical and applied anatomy of the External Carotid Artery.

The topographical and applied anatomy of the PTERYGOPALATINE FOSSA.

Topographical and applied anatomy of the Boundaries of The Pterygopalatine Fossa.

Topographical and applied anatomy Contents of The Pterygopalatine Fossa.

The topographical and applied anatomy of the Maxillary Nerves.

The topographical and applied anatomy of the Maxillary Arteries.

The topographical and applied anatomy of the Maxillary Veins.

The topographical and applied anatomy of the Pterygopalatine Ganglion.

Topographical and applied anatomy of the Trace and The course and Branches of The maxillary Nerve in The Pterygopalatine Fossa.

The topographical and applied anatomy of the Pterygopalatine Ganglion.

The topographical and applied anatomy nerve of the pterygoid Canal (Vidian Nerve)

The topographical and applied anatomy of the Five Nerve branches of the Pterygopalatine ganglion

The topographical and applied anatomy of the Nasopalatine nerve (formerly the long Sphenopalatine)

The topographical and applied anatomy of the Lateral Posterior Superior Nasal Nerves (formerly the short Sphenopalatine)

The topographical and applied anatomy of the Greater Palatine Nerve

The topographical and applied anatomy of the Lesser Palatine Nerves

The topographical and applied anatomy of the Pharyngeal Nerve and its One or two very fine orbital branches

The topographical and applied anatomy of the five branches of the Maxillary

Topographical, functional microscopic, developmental Anatomy of the sensory organs:

The topographical and applied anatomy of the Ears

The topographical and applied anatomy of the Orbit and The Eyes

The topographical and applied anatomy of the Nose.

The topographical and applied anatomy of the Paranasal Sinuses.

The topographical and applied anatomy of The salivary glands.

The topographical and applied anatomy of The parotid gland.

The topographical and applied anatomy of The submandibular gland.

The topographical and applied anatomy of The sublingual gland.

The topographical and applied anatomy of The major arteries of the head and neck.

The topographical and applied anatomy of The common carotid arteries.

The topographical and applied anatomy of The external carotid artery.

The topographical and applied anatomy of internal carotid artery.

The topographical and applied anatomy of The subclavian arteries.

The topographical and applied anatomy of The veins of the head and neck.

The topographical and applied anatomy of The cerebral venous system.

The topographical and applied anatomy of The venous sinuses of the dura.

The topographical and applied anatomy of The internal jugular vein.

The topographical and applied anatomy of The subclavian vein.

The topographical and applied anatomy of The lymph nodes of the neck, 306

The topographical and applied anatomy of The cervical sympathetic trunk

The topographical and applied anatomy of The branchial system and its derivatives such as the Branchial cyst and fistula

The topographical and applied anatomy of The surface anatomy and surface markings of the head.

The topographical and applied anatomy of The scalp.

The topographical and applied anatomy of The skull.

The topographical and applied anatomy of The accessory nasal sinuses, 318

The topographical and applied anatomy of the The frontal sinuses.

The topographical and applied anatomy of the The maxillary sinus (antrum of Highmore).

The topographical and applied anatomy of the The ethmoid sinuses.

The topographical and applied anatomy of the The sphenoid sinuses.

The topographical and applied anatomy of The mandible.

The topographical and applied anatomy of The temporomandibular joint.

The topographical and applied anatomy of The teeth.

The topographical and applied anatomy of The vertebral column.

The topographical and applied anatomy of The cervical vertebrae.

The topographical and applied anatomy of The thoracic vertebrae.

The topographical and applied anatomy of The lumbar vertebrae.

The topographical and applied anatomy of the sacrum.

The topographical and applied anatomy of The coccyx.

The topographical and applied anatomy of The intervertebral joints.

The topographical and applied anatomy of The Central Nervous System

The topographical and applied anatomy of The spinal cord.

The topographical and applied anatomy of the Age differences in the central nervous system and the spinal cord.

The topographical and applied anatomy of Descending tracts.

The topographical and applied anatomy of Ascending tracts.

The topographical and applied anatomy of The membranes of the cord (the meninges).

The topographical and applied anatomy of The brain(The cerebrum)

The topographical and applied anatomy of The medulla.

The topographical and applied anatomy of The pons.

The topographical and applied anatomy of The cerebellum.

The topographical and applied anatomy of The midbrain.

The topographical and applied anatomy of The diencephalon.

The topographical and applied anatomy of The hypothalamus.

The topographical and applied anatomy of The pituitary gland (hypophysis cerebri).

The topographical and applied anatomy of The thalamus.

The topographical and applied anatomy of The cerebral hemispheres.

The topographical and applied anatomy of The cerebral cortex.

The topographical and applied anatomy of The insula.

The topographical and applied anatomy of The connections of the cerebral cortex.

The topographical and applied anatomy of The basal ganglia.

The topographical and applied anatomy of The long ascending and descending pathways.

The topographical and applied anatomy of The membranes of the brain (the meninges).

The topographical and applied anatomy of The ventricular system and the cerebrospinal fluid circulation.

The topographical and applied anatomy of The cranial nerves.

The topographical and applied anatomy of The olfactory nerve (I).

The topographical and applied anatomy of The optic nerve (II) and the visual pathway.

The topographical and applied anatomy of The oculomotor nerve (III).

The topographical and applied anatomy of The trochlear nerve (IV).

The topographical and applied anatomy of The trigeminal nerves (V).

The topographical and applied anatomy of The abducent nerve (VI).

The topographical and applied anatomy of The facial nerve (VII).

The topographical and applied anatomy of The auditory (vestibulocochlear) nerve (VIII).

The topographical and applied anatomy of The glossopharyngeal nerve (IX).

The topographical and applied anatomy of The vagus nerve (X).

The topographical and applied anatomy of The accessory nerve (XI).

The topographical and applied anatomy of The hypoglossal nerve (XII).

The topographical and applied anatomy of The special senses.

The topographical and applied anatomy of The nose.

The topographical and applied anatomy of the The ear.

The topographical and applied anatomy of The eye and associated structures.

The topographical and applied anatomy of The autonomic nervous system.

The topographical and applied anatomy of Visceral afferents.

The topographical and applied anatomy of The sympathetic system.

The topographical and applied anatomy of The sympathetic trunk.

The topographical and applied anatomy of The parasympathetic system.



### **Specific interests i.e. anatomical study, embalming, dissection etc**

My interests in Anatomical Sciences revolves around, but not confined to:

Anatomical studies.

Embalming.

Diagnostic Autopsies.

Developmental Anatomy, Embryology, Genetics & Ontogeny.

Microscopic Functional Anatomy & Histology.

Applied Anatomical Sciences.

Comparative Experimental and Pedagogic Anatomical Sciences

Clinical Demonstrations & Illustrations in Anatomical Sciences.

Computer Applications in Anatomical Sciences.

Pathological Anatomy.

Pathophysiology.

Histochemistry.

Virtual and Real Time Comparative & Human Anatomical Dissections etc

### **HISTOLOGY & EMBRYOLOGY LECTURES, TUTORIAL & PRACTICAL THEMES.**

The Typology, examples and histological Features of Epithelial cells, Cartilage, muscles tissue, bones, blood vessels, nervous tissues, neuroglial, microglia and an annotated diagrammatical representation of the basic functional and structural units of all the tissues and organ systems of the body etc.,

Topographical, functional microscopic, developmental Anatomy of the Central Nervous System (The Brain and The Spinal Cord)

### **Methodologies Of Instruction:**

Digital photographs, Micrographic and Microscopic Slides of Light Microscopy, Electron Transmission-Microscopy,-Scanning-Transmission-Electron-Microscopy  
 Immunofluorescence Microscopy,  
 Phase Contrast Microscopy,Immunohistochemistry,molecular-pathology,mutation-analysis cytogenetics,toxicology,Imaging Techniques such as Digital Camera,X-rays,(Computer Tomographic Scans(CT Scans),Magnetic Resonance Imaging Scans (MRIs),Nuclear-Medicine-Techniques  
 ,Spectroscopy,Spectrometry,Electrophoresis,Chromatography,of-intraoperative ,cadaveric and autopsy procedures etc.  
 Lectures  
 Tutorials  
 Discussion groups  
 Guest lectures  
 Projects (e.g. case studies, poster presentation, seminar presentation)  
 Reading of articles from relevant scientific journals

### **Methodologies Of Course Assessment:**

Evaluation will be carried out in accordance with the university policy. The lecturer will present a written course outline with specific evaluation criteria at the beginning of the semester.Evaluation will be based on the following:

<b><u>Criteria</u></b>	<b><u>Marks</u></b>
Individual Works/Tasks	10
Class Tests	10
Class Assignments	10
Final Examination	70
TOTAL	100

### **Pre-Requisite Courses:**

None

### **Co-Requisite Course(s):**

None

### **Recommended Reference Materials:**

Indexed Anatomy Textbooks, Journals and Web

## **Pathological Anatomy Course Contents and Descriptions.**

### **Course Description:**

This course deals with basic thematic aspects of General Pathology and their application in the evaluation and intervention of Specific Medical & Surgical Diseases in

addition to common general systemic diseases especially the ones of utmost interest in Nursing Science.

### **Learning Outcomes/ Objectives:**

At the end of this course, the student will be able to;

[i]-Employ General Pathological Concepts in the evaluation and interventions of medical and surgical specialty focused diseases in addition to common general systemic diseases of utmost interest in Nursing Science.

[ii]-Comprehend the various subspecialties of Pathology for appropriate utmost expert referral and consultation.

[iii]-Appreciate the role of Pathology in Clinical Practice especially in Nursing Science.

[iv]-Be acquainted of the basic routine armamentariums employed in Pathology such as but not confined to Light Microscopy, Electron Transmission Microscopy, Scanning Electron Transmission Microscopy Immunofluorescence Microscopy, Phase Contrast

Microscopy, Immunohistochemistry, molecular-pathology, mutation-analysis cytogenetics, toxicology, Imaging Techniques such as Digital Camera, X-rays, (Computer Tomographic Scans (CT Scans), Magnetic Resonance Imaging Scans (MRIs ), Nuclear Medicine Techniques , Spectroscopy, Spectrometry, Electrophoresis, Chromatography intraoperative cadaveric and autopsy procedures etc.

[v]-Comprehend the indications, and pros and cons of various sampling techniques such as Surgical Pathological Fine Needle Aspiration Biopsy and Cytology, Excisional and Incisional biopsies, Trucut biopsies and Frozen Section techniques, blood and body fluid collection techniques etc.

### **Course Content:**

#### **The Scientific Discipline Of Pathology & Pathological Anatomy. (Essence)**

Definition of Pathology and its allied subspecialties.

Pathology as the scientific study that guides the cure of diseases.

Histopathology, Chemical Pathology and Microbiology/Parasitology are traditional branches of Pathology.

Histopathology includes diagnosis with tissues and autopsy (necropsy)

Chemical Pathology includes the diagnosis with the use of chemical composition of the body fluids.

Microbiology/Parasitology is the study of the implicated microbes (Bacteria, Fungi, Viruses and Parasites) in disease causation.

The Thematic Components Of General Pathology Such as:

Inflammation, Necrosis, Calcification, Amyloidosis and Degeneration.

Wound and Fracture Healing, Typology of Ulcers, Fibrogenesis.

The Physiological aspects of cellular and tissue adaptations.

The Pathological aspects of cellular and tissue adaptations.

The generic aspects of Bening and Malignant Neoplasias.

The Thematic Components of Systemic Pathology which includes:

Neuropathology, Oral Pathology, Paediatric Pathology, and Dermatopathology.

Cytopathology, Immunohistogenetics ,Immunocompatibility& Transplantation Science.

Haematopathology, Oncological Pathology&Transfusion Science.

Paediatric Pathology, Maxillofacial/Oral Pathology, Molecular Pathology and Cytogenetics.

Head/Neck Pathology, Forensic Pathology, Immunohistochemistry&Toxicology.

The Other Components of The Systemic Pathology which includes:

Nephropathology, Gastrointestinal Pathology and Hepatopathology.

Endocrine Pathology, Rheumatopathology&CardioPulmonary Pathology

Nephropathology deals with diseases of the Renal&Urological systems.

Rheumatopathology and its related Immunopathology.

Gastrointestinal Pathology and its related Hepato-Pathology through their origin.

Examples and Nomenclature of Experts in Pathology.

Inflammation. (Definitions and Cardinal signs)

Inflammation (Symptomatology and Signs)

Inflammation (Inciting Agents)

Inflammation (Essense)

The acute exudative inflammatory reaction and its formal pathogenic elements:

Inflammatory Mediators.

Pathogenesis Of The Exudation Phase Of Inflammation.

Inflammatory Phases Outcome

Examples of micro-organisms that could incite chronic and/or granulomatous inflammation.

Acute Inflammation (Essense)

Subacute Inflammation (Essense)

Chronic Inflammation (Essense)

The Consequence Of The Proliferative Phase Of Inflammation:

Exudative Inflammations

Serous Inflammation (Essense)

Differential Characteristic Of A Transudate:

Serous Exudate:

Catarrhal Inflammation

Fibrinous Inflammation (Essense)

Fibrinous Inflammation (Croupous Type).

Fibrinous Inflammation (Diphtheria Type)

Empyema (Essense).

Phlegmon (Essense)

An abscess (Essense)

Haemorrhagic Inflammation (Essense)

Putrefactive Inflammation

Courses of Acute Inflammation

Wound Healing

First Intention (Primary) Intention Healing (Essense)

The Early lag phase of wound healing.

The proliferative phase of wound healing (Features).

The Remodelling phase of wound healing (Features).

(Second) Secondary Intention healing (Essense).

Examples of Local and regional factors undermining and discouraging wound healing includes:

Examples of General and systemic Factors delaying wound healing.

Soft Tissue Inflammations (Typology and Features).

Cysts (Essense)

Congenital Cysts (Typology and Essense)

Ulcers (Essense and Classification Schemes)

Ulcers (Essense and Features)

Ulcers (Essense and Features)

Ulcers (Natural History and Interventions)

Sinuses and Fistulas (Essense)

(Factors leading to delayed healing or non-closure) Sinuses and Fistulas includes.

Gangrene (Essense)

Gangrene (Aetiology and Typology)

Gangrene (Natural history and Essense)

Gangrene (Natural history and Interventions)

Tumours (Neoplasms or New Growths) Essense and Classification Schemes.

Tumours (Histology and Biological Behaviour)

Tumours (Structural Classification)

Tumours (Examples and Structural Classifications)

Cellular changes (Hyperplasia)

Cellular changes (Aplasia and hypoplasia)

Cellular changes (Atrophy)

Cellular changes (Hypertrophy)

Cellular changes (Dysplasia)

Cellular Changes Metaplasia.

Necrosis (Typologies)

Hypersensitivity responses (Typology and Essence)

Calcifications (Typology and Essence).

Amyloidosis (Typology and Essence).

Inherited immunodeficiency states (Typology and Essence) .

The features of T-cell deficiencies.

The features of B-cell deficiencies include.

IgA deficiency states (Pathological Essence)

Quantitation of B and T lymphocytes in the peripheral blood film for the diagnosis of immunodeficiency states.

Useful Screening Test for the evaluation of a T-cell immunity.

Adenosine deaminase (ADA) deficiency (Essence and Interventions)

DiGeorge's syndrome (Essence)

Jobs Syndrome (Essence)

Ataxia-telangiectasia (Essence)

Complement deficiencies (Pattern and Essence)

C1 esterase inhibitor deficiency (Essense and Interventions)

Discuss the pathology, complications and targets for diagnostic and therapeutic interventions for

Congestive Cardiac Failure in childhood,

Nephrotic Syndrome In childhood.

Protein-energy malnutrition (Kwashiorkor, Marasmus and Marasmic kwashiorkor)

Nephritic Syndrome.

Nephritic-Nephrotic syndrome.

Protein losing enteropathies and malabsorption syndrome.

Allergic and idiopathic oedema.

Congenital Nephrotic syndromes, congenital hepatic and biliary cirrhosis.

Renal, Jejunal, duodenal and hepatic Biopsies Renal Dialysis, Hepatic, Renal and Cardiac Transplantations.

The various Modalities of Renal Replacement Therapy.

The Nephropathy of Systemic Diseases (Diabetes Mellitus, Malignancies, and Systemic Lupus Erythematosus etc.

Hypercoagulability in Nephrotic syndrome.

Nephrotic syndrome and susceptibility to infective episodes.

The Familial Genetic Congenital Nephrotic Syndromes.

The Danon's Drash Syndrome.

The divergence in the therapeutic interventions between the Acute Nephritic syndrome and the Nephrotic syndrome.

The iatrogenic complications in acute nephritic syndrome and acute nephrotic syndrome.

Applying your knowledge of the gastrointestinal tract and its adnexal (Liver, Spleen, Pancreas and the gall bladder) pathologies itemise and discuss the aetiology, pathology, complications and targets for diagnostic and therapeutic interventions of the probable causes of gastrointestinal bleeding.



For each organ of the GIT and adnexa (liver, gall bladder ,spleen and the pancreas discuss the pathology and diagnosis of the most common lesions that could cause steatorrhea, malabsorption and intestinal failure and identify possible targets for rational diagnostic and therapeutic interventions.

Characterize the shock syndrome and with notable examples discuss the typology, pathogenesis, complications and targets for diagnostic and therapeutic interventions for shock syndromes.

State, examine and discuss the Starlings Law of Fluid dynamics.

Discuss the aetiology, typology, complications, and targets for diagnostic and therapeutic interventions for:

Biventricular congestive cardiac failure.

Cor pulmonale.

Pulmonary Oedema.

Vascular aneurysms and varicosities.

Pericarditis.

Arrhythmias.

Infective Endocarditis

Acute Rheumatic Fever and Rheumatic Valvular Disease.

Discuss the pathology, complications and targets for diagnostic and therapeutic interventions for:

Idiopathic Fibrosing Alveolitis.

Bronchial Asthma.

Chronic Obstructive Pulmonary Diseases (COPD).

Pneumoconiosis.

Pulmonary Tuberculosis.

Sarcoidosis.

Bronchogenic Carcinoma.

Mesotheliomas.

Discuss the pathology and targets for diagnostic and therapeutic interventions, complications for:

Cranial and nephrogenic diabetes insipidus.

Diabetes Mellitus.

Diabetic Pre-Coma and Coma states.

The Infantile, Childhood and Juvenile Onset Diabetes Mellitus and Adult Onset Diabetes Mellitus.

Discuss the pathological causes of progressive head, neck and oral cavity lesions especially those with the three Ds (dysphagia, dyspnoea and dysphonia.) and bleeding diathesis.

Discuss the typology, pathology, mechanisms of metastatic disseminations, complications and targets for diagnostic and therapeutic interventions for the thyroid carcinomas.

Discuss the typology, pathology, complications and targets for diagnostic and therapeutic interventions for:

The inflammatory, idiopathic, cryptogenic, autoimmune and, nutritional thyroid disorders.

The Waterhouse Freidreichsens Syndrome.

The Stein-Leventhal Syndrome.

The Multiple Endocrine Neoplasia syndromes (MENS)

Application of General PATHOLOGY In Systemic Pathology of Relevance To Students of Dental Therapy.

History Taking of Relevance To Renal Pathology.

Unusual macroscopic appearances of urine and the possible aetiological factor

Basic general physical examination to guide pathological laboratory investigations:

Classification of the Symptomatology and Signs of Chronic Renal Failure (CRF):

The Symptomatology and Signs of Chronic Renal Failure (CRF) could be systemically classified as Follows:

Uremic Osteopathology:

Reproductive Difficulties and Pathology in Chronic Renal Failure:

CardioPathology OF Chronic Renal Failure:

The Symptomatology and Signs of Chronic Renal Failure(CRF) could be Systemically classified as Follows:

Haemato-pathology of chronic renal failure:

The Immunopathology of chronic renal failure:

Central nervous system (CNS) features of chronic renal failure and ureamic neuropathology .

Respiratory/Pulmonary System (CNS) Features of chronic renal failure and ureamic pulmonary pathology includes:

Gastrointestinal System Pathological (GITSystem) Features of Chronic Renal Failure:

Gastrointestinal System Pathological (GITSystem) Features of Chronic Renal Failure:

Ureamic Gastroenteropathology:

The Dermathopathology and Allied Integumentary System Pathology of Chronic Renal Failure:

The Musculo-Skeletal System Pathology of Chronic Renal Failure:

Ureamic Myopathology:

Fluid and Electrolyte Imbalances in Chronic Renal Failure:

Reproductive Difficulties and Pathology in Chronic Renal Failure:

Haemato-Pathology of Chronic Renal Failure:

The Immunopathology of Chronic Renal Failure:

Endocrinopathies and metabolic disturbances of chronic renal failures:

Renal Osteodystrophy, Secondary Hyperparathyroidism,Carbohydrate Intolerance  
Hyperuricaemia,Hypothermia ,Hypertriglyceridemia , Protein-Calorie malnutrition  
Impaired growth and development ,Infertility and Sexual dysfunction ,Amenorrhea.

Dialysis and Transplantation related complications.

Investigations for Renal Pathologies which have three main purposes:

First, to establish a diagnosis.

Secondly to assess the complications of impaired renal function.

Thirdly to prepare the patient for probable surgery and to monitor the progress of the pathology and its response to therapy, or both

The ideal sequence of investigations in renal pathology which depends upon the clinical picture.

The widely applicable of approach of investigations in renal pathology which is equally variable.

Other investigations of relevance for the Renal System:

Investigations used selectively for the renal system :

Specialized Investigations for the Renal System includes:

Renal arteriography

Specialized Investigations of the renal system (essence) and gradings

The Pivotal Role of Radionuclide Scans in Renal Pathology:

Further indications For a Radionuclide scanning include:

The Role of Diagnostic and Therapeutic Interventional Radiological Techniques in several aspects of Renal Pathology.

Renal biopsy (Essence and Indications)

Renal Biopsy (Absolute and Relative Indications)

In the evaluation of Renal Disease Tests For Other Systemic Disease May be needed and Included:

Acute Kidney Injury (Targeted Therapeutic Interventions) include.

Renal Replacement Therapy (Essence)

Acute nephritic syndrome (Essence).

Nephrotic Syndrome (Essence and Causes)

Renal vasculitis and Wegener's Granulomatosis.

Tubulo-interstitial Diseases (Essence and Definitions)

Renal Tubular Disorders-RTD (Essense and Typology)

Hypertension and the Kidney (Renal Hypertension)

Hypertension and The Kidney (Hypertensive Nephropathy)

Familial Renal Diseases (Essense and Typology)

Renal Parenchymal Infectious Diseases Spectrum.

Chronic Pyelonephritis. (Essense and Typology)

Obstructive Uropathy (Essense and Interventions)

Renal calculi (Essense and Interventions)

Renal calculi, renal calcification and nephrocalcinosis (Essense and Interventions)

History Taking and Examination of relevance to the Gastrointestinal Hepatology Systems Pathology.

Causes of Gastrointestinal Bleeding include:

Further Physical and Systemic Examination Findings in Hepatobiliary, Pancreatic and Gastrointestinal Systems Pathology:

Investigations of Relevance To The Gastrointestinal System and Hepatology system Pathology.

The Contributions of Nuclear Medicine Techniques To The Evaluation of Hepatobiliary, Pancreatic and Gastrointestinal Pathology.

The Contributions of Histopathological Techniques To The Evaluation of Hepatobiliary, Pancreatic and Gastrointestinal Pathology.

Historical Notes of Relevance To The Cardiovascular System Pathology.

Biventricular Congestive Cardiac Failure.

Biventricular Congestive Cardiac Failure (Essense and Features)

Biventricular Congestive Cardiac Failure (Essense and Features) & Medications

Heart Failure (Classification Schemes)

Biventricular Congestive Cardiac Failure (Essense and Typology)

Ultrasonography of The Heart.

Imaging in Biventricular Congestive Cardiac Failure.

Angiography In Heart Failure

Algorithms for The Diagnosis of Congestive Cardiac Failure.

Staging of Biventricular Congestive Cardiac Failure

The evaluation of Heart Failure:

The Prevention of Congestive Cardiac Failure:

Congestive Cardiac Failure (Essense and Interventions)

Surgical therapies For Heart Failure.

Palliative care:

Prognosis:

Heart Failure (Essense, Interventions and Prognosis)

Research Directions for Congestive Cardiac Failure.

Paradoxical Embolism. (Venous to arterial) Essense.

Cardiac Biomarkers.

Complications of Myocardial infarction

Cardiomyopathies could be classified using different criteria•

Rheumatic Heart Fever (RHF)-Essense and Pathology.

Modified Duckett Jones (Major Criteria):

Modified Duckett Jones for The diagnosis of Rheumatic Fever (Minor criteria)

Aetiological Factors For Pericarditis include

Pericarditis (Typology and Complications)

Pathophysiology of Aneurysms:

Aneurysms (Essense, Typology and Interventions)

Lymphoedema (Essense and Typology)

Arrhythmias (Essense, Typology and Interventions)

Heart blocks.(Definitions and Essence)

Pulmonary arterial hypertension (PAH)

Varicose Veins Complications

Pathophysiology of asthma

Adult respiratory distress Syndrome (ARDS):

Common Causes of ARDS include but not confined to :

Common Endocrinopathies .

The Pathological anatomy and applied pathology of The Central Nervous System

The Pathological anatomy and applied pathology of The spinal cord.

The Pathological anatomy and applied pathology of the Age differences in the central nervous system and the spinal cord.

The Pathological anatomy and applied pathology of the Descending tracts.

The Pathological anatomy and applied pathology of the Ascending tracts.

The Pathological anatomy and applied pathology of The membranes of the cord (the meninges).

The Pathological anatomy and applied pathology of The brain(The cerebrum)

The Pathological anatomy and applied pathology of The medulla Oblongata.

The Pathological anatomy and applied pathology of The pons.

The Pathological anatomy and applied pathology of The cerebellum.

The Pathological anatomy and applied pathology of The midbrain.

The Pathological anatomy and applied pathology of The diencephalon.

The Pathological anatomy and applied pathology of The hypothalamus.

The Pathological anatomy and applied pathology of The pituitary gland (hypophysis cerebri).

The Pathological anatomy and applied pathology of The thalamus.

The Pathological anatomy and applied pathology of The cerebral hemispheres.

The Pathological anatomy and applied pathology of The cerebral cortex.

The Pathological anatomy and applied pathology of The insula.

The Pathological anatomy and applied pathology of The connections of the cerebral cortex.

The Pathological anatomy and applied pathology of The basal ganglia.

The Pathological anatomy and applied pathology of The long ascending and descending pathways.

The Pathological anatomy and applied pathology of The membranes of the brain (the meninges).

The Pathological anatomy and applied pathology of The ventricular system and the cerebrospinal fluid circulation.

The Pathological anatomy and applied pathology of The cranial nerves.

The Pathological anatomy and applied pathology of The olfactory nerve (I).

The Pathological anatomy and applied pathology of The optic nerve (II) and the visual pathway.

The Pathological anatomy and applied pathology of The oculomotor nerve (III).

The Pathological anatomy and applied pathology of The trochlear nerve (IV).

The Pathological anatomy and applied pathology of The trigeminal nerves (V).

The Pathological anatomy and applied pathology of The abducent nerve (VI).

The Pathological anatomy and applied pathology of The facial nerve (VII).

The Pathological anatomy and applied pathology of The auditory (vestibulocochlear) nerve (VIII).

The Pathological anatomy and applied pathology of The glossopharyngeal nerve (IX).

The Pathological anatomy and applied pathology of The vagus nerve (X).

The Pathological anatomy and applied pathology of The accessory nerve (XI).

The Pathological anatomy and applied pathology of The hypoglossal nerve (XII).

The Pathological anatomy and applied pathology of The special senses.



The Pathological anatomy and applied pathology of The nose.

The Pathological anatomy and applied pathology of The ear.

The Pathological anatomy and applied pathology of The eye and associated structures.

The Pathological anatomy and applied pathology of The autonomic nervous system.

The Pathological anatomy and applied pathology of Visceral afferents.

The Pathological anatomy and applied pathology of The sympathetic system.

The Pathological anatomy and applied pathology of The sympathetic trunk.

The Pathological anatomy and applied pathology of The parasympathetic system.

### **Methodologies Of Instruction:**

Light Microscopy, Electron Transmission Microscopy, Scanning Electron Transmission Microscopy Immunofluorescence Microscopy, Phase Contrast Microscopy, Immunohistochemistry, molecular-pathology, mutation-analysis cytogenetics, toxicology Digital Camera, X-rays, (Computer Tomographic Scans (CT Scans), Magnetic-Resonance-Imaging-Scans (MRIs)), Nuclear Medicine Techniques, Spectroscopy, Spectrometry, Electrophoresis, Chromatography-etc. Microscopic and Micrographic Slides Of intraoperative, cadaveric and autopsy procedures.

Lectures

Tutorials

Discussion groups

Guest lectures

Projects (e.g. case studies, poster presentation, seminar presentation)

Reading of articles from relevant scientific journals and Text Books.

### **Methodologies Of Course Assessment:**

Evaluation will be carried out in accordance with the university policy. The lecturer will present a written course outline with specific evaluation criteria at the beginning of the semester. Evaluation will be based on the following:

<b><u>Criteria</u></b>	<b><u>Marks</u></b>
Individual Works/Tasks	10
Class Tests	10
Class Assignments	10
Final Examination	70
TOTAL	100

**Pre-Requisite Courses:**

None

**Co-Requisite Course(s):**

None

**Recommended Reference Materials:**

Indexed Pathology Textbooks, Journals and Web

**Publications of Dr. Emmanuel Udemezue Onyekwelu. M.D, F.R.S.H, F.R.S.A. (as anAuthor) indexed, adapted, recommended and referenced by University Reference and Research Libraries overseas for the application ,citations and references by their University undergraduate and higher degree graduate Scholars.**

**Name of Libraries:**

**York University and Hospital For Sick Children (Sick Kids) Academic Research Libraries .Toronto Ontario Canada. North America.**

**Authors Name & Publication Type: Tessa Clemens.PhD Thesis**

**Title:** Addressing Gaps in our understanding of the Epidemiology of Drowning at the Global, National, and Local levels by **TK Clemens 2017 PhD .pdf.**

Von

Tessa Clemens.

A dissertation submitted to the Faculty of Graduate Studies in Partial fulfillment of the requirement for the degree of Doctor of Philosophy Graduate program in Kinesiology and Health Science York University Toronto, Ontario Canada. January 2017.Copy Right Tessa Clemens 2017.

This PhD dissertation is the first classic, scholarly and scientific study in non-fatal drowning in Canada. North America with seminal citations.

**Publications Indexed, adapted, recommended and referenced by University Academic Research Reference Libraries Authored by Dr.Onyekwelu.Emmanuel:**

**Referenced Publications Authored by Dr.Onyekwelu.Emmanuel:**

[1]-Onyekwelu.E.Drowning and Near Drowning.  
Internet Journal of Health 14 Jan 2009, vol8/2

[2]-Onyekwelu .E.Critical Study of near drowning cases seen in a Paediatric emergency department in West Africa.

Internet Journal of Health 14 Jan 2009, vol 8/2(13-13)

**This Referenced Publications Authored by Dr.Onyekwelu.Emmanuel:**

Was equally adapted and applied by some other PhD and Post Doctoral Fellowships Pogrammes from The Scandinavia.

University of Stockholm in Sweden Post Doctoral PhD Fellowship Project.

Resuscitation (2008) 76; 381-387.

Characteristics and outcome amongst patients suffering out –of –hospital Cardiac arrest due to drowning.

(Von)

**Andreas Claesson .RN/PhD.**

Leif Svensson

Johan Silfvestolpe

Johan Herlitz.

Drowning deaths in Sweden with the emphasis on the presence of alcohol and drugs- a retrospective study, 1992-2002.

(Von)

Kristen Ahlm

Britt-Inger

Ulf Bjornstig

Resuscitation (2014) 85; 644-648.

Cardiac Arrest Due To Drowning –Changes Over Time And Factors OF Importance For Survival .

Andreas Claesson-Paramedic RN/PhD.

Kingaliv Ambulance Service.SE-442 40 Kungälv, Sweden.

Johan Herlitz.

Johnny Lindqvist.

**Name of Libraries:**

**The Academic Research Reference Libraries OF The** Institute of Medicine,  
Department of Molecular and Clinical Medicine Cardiology, Salgnenska University  
Hospital, SE-41345 Guttenburg, Sweden.

**The Academic Research Reference Libraries OF The** Centre for Pre-hospital  
Research Western Sweden, Prehospden, University College of Bords and Salgrenska  
University Hospital, Gottenburg Sweden.

**Andreas Claesson Paramedic RN/PHD CARDIAC ARREST DUE TO  
DROWNING IN SWEDEN IN THE LAST TWENTY YEARS.**

**Name of other Libraries adapting and Referencing the above publication by  
Dr.Emmanuel Onyekwelu.M.D, F.R.S.H, F.R.S.A.,F.R.S.B.**

**The Academic Research Library of The Department of Anaesthesia of The King  
Fahad Medical City University Hospital in The Middle East.**

**The Academic Research Library of The University of Texas School of Biomedical  
Informatics at Houston Texas.USA.**

And some University in West Indies and Caribbean's Medical Schools Faculty and  
Students Projects, and Doctoral and Post Doctoral Dissertations and Thesis.

**Name of Libraries adapting, applying and Referencing other Publications of**

**Dr.Emmanuel Onyekwelu.M.D, F.R.S.H, F.R.S.A., F.R.S.B., F.R.S.S.**

**Universitatbibliothek Frankfurt a.m. Boekenheimer Landstr.134-138. 60325  
Frankfurt am Main .Germany.**

**The Academic Research Library of The University of Technology of Free State  
(Bloemfontein . South Africa)**

**Referenced Publications Authored Von (by) Onyekwelu.E.**

[3]- Onyekwelu.E .Intractable abdominal pain and constipation due to compulsive geophagia in a child from a developing country.Paediatic On call 2008 November 1;5.

The above article was adapted, applied and referenced in the outstanding thesis of:  
**Faculty of Health and Environmental Sciences Central University of Technology  
Free State (Bloemfontein South Africa)**

Authored Von (by) **Mellie Jacoba Smit**

**Authors Name, Publication Title & Type:**

**Mellie Jacoba Smit**.A Qualitative study of selected micro-organisms in Geophagic soil from QWA-QWA. Southern Africa.**A dissertation submitted in fulfillment of the requirement for the Degree Magister Technologiae; Biomedical Technology November 2011.**

**Publications authored by Dr. Emmanuel Udemezue Onyekwelu. M.D,  
F.R.S.H, F.R.S.A.**

Indexed, adapted, recommended and referenced by  
**University Reference Libraries Of(Universitatbibliothek) of Goethe Universitat  
Frankfurt Am Main Federal Republic of Germany.**

For the application, readership and reference by their University undergraduate and higher degrees graduate Scholars.

[4]- Onyekwelu.E. The Skeletal Muscle: the Accessible Gateway to the heart. A natural history study of Cardiomyopathies in inherited Muscular Dystrophies' (MDS)  
European Journal of Paediatric Neurology 2011; 15 Supplement 1:S44.

Von (by) Onyekwelu.E.Udemezue.

[5] -Onyekwelu.E. Imaging in HBSS crisis: Implications for Acute Chest Syndrome.  
European Radiology .February 2009; Supplement 1, vol.19, p587-618, 32p.

Von (by) Onyekwelu.E.Udemezue.

[6]- Onyekwelu.E .Occult Parainfectious related extreme ambulatory failures in a well adapted case of Childhood Duchene's Muscular Dystrophy (DMD) European Journal of Paediatric Neurology 2011; 15 Supplement 1:S44-S45.

Von (by) Onyekwelu.E.Udemezue.

[7]- Onyekwelu.E .Positive Attitudinal change in the established horizons of the health care seeking behaviors of parents and care givers of children with neuropsychopathologies following a standardized proffer of evidence based novel instrumentations and interventions. Society for Applied Neurosciences (SAN) &Group of Applied Neurosciences (GAP) 2011Conference Thessaloniki, Greece, May 5-8 2011.

Neuroscience Letters 2011 500(supp) e50; Published by Netherlands Elsevier Science BV; Amsterdam 2011.

& Journal of Childhood and Adolescence Psychology .2011

Von (by) Onyekwelu.E.Udemezue.

[8]- Onyekwelu.E .Observational notes on the evaluations in the intricacies, chronology and dimensions of gastroenteritic related multisystemic syndromes with neurological complications.

Society for Applied Neurosciences (SAN)  
&Group of Applied Neurosciences (GAP)  
2011

Conference Thessaloniki,  
Greece, May 5-8 2011

Neuroscience Letters 2011 500(supp) e50; Published by Netherlands Elsevier Science BV; Amsterdam 2011.

& Journal of Childhood and Adolescence Psychology .2011

Von (by) Onyekwelu.E.Udemezue.

[9]-Onyekwelu.E. A comparative analysis of a representative series of cerebral palsy cases. World Family Medicine Journal incorporating the Middle East Journal of Family Medicine&The South Asia Journal of Family Medicine, May 2010-Volume 8 Issue 4.

Von (by) Onyekwelu.E.Udemezue.

**Name of Library:**

**Universitatbibliothek Goethe Universitat Frankfurt Am Main Federal Republic of Germany..**

**And since the Academic Bibliographic Year 2017, The above Publications Authored by Dr. Emmanuel Onyekwelu. M.D, F.R.S.H, F.R.S.A. is equally Indexed ,Adapted and Referenced by the Academic Research E- Libraries of the University of Washington Partnering with the Allen Institute for Brain Science and Cell Science Artificial Intelligence through their Semantic Scholar Bibliographic Project.**

**Name of Library:**

**Academic and Research Library of College of Medicine Mutah University Jordan &The Jordanian Institute Of Childhood Neurology & Neurodisability Jordan.(Middle East)**

**Authors Name & Publication Type:**

**Omar Ali Nafi. MRCP (UK)-Assistant Professor &Director Prince Hassan Center for early diagnosis of child hood disabilities P. O. BOX 7 Karak, Jordan College of Medicine Mutah University Jordan &The Jordanian Institute Of Childhood Neurology & Neurodisability Jordan.**

**Title:**An analysis of Cerebral palsy cases in Jordan. Clinical Spectrum of Cerebral Palsy in South Jordan; Analysis of 122 Cases

Von (by)  
Omar Ali Nafi. MRCP (UK)-Assistant Professor

A Progressive Tenured University Faculty's structured official Academic Research Scholarship output.

Nafi OA (2011) Clinical Spectrum of Cerebral Palsy in South Jordan; Analysis of 122 Cases. Pediatr Therapeut 1:101. doi:10.4172/2161-0665.1000101

**Publications authored by Dr. Emmanuel Udemezue Onyekwelu. M.D, F.R.S.H, F.R.S.A.**Indexed, adapted, recommended and referenced by the above author.

Von (by) Onyekwelu.E.

[9]- Onyekwelu.E. A comparative analysis of a representative series of cerebral palsy cases. World Family Medicine Journal incorporating the Middle East Journal of Family Medicine  
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**Authored by Dr.Emmanuel Onyekwelu.M.D, F.R.S.H, F.R.S.A.**

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**The University Library of The Institute of Diabetes and Endocrinology. Schneider Hospital for Children Isreal. Petach Tikva Isreal.**

**The Academic Research University Library of The School of Medicine Tel Aviv University Isreal.**

**The Academic Research Library of The German National Academy of Sciences Leopoldina Germany.**

**The Academic Research Library of The Medical and Scientific Academy of Romania.**

**The Academic Research University Library of The University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj-Napoca, Romania.**

**The Academic Research The University Library of The University of Medicine and Pharmacy, Timisoara, Romania.**

**The University Academic and Research Library of The University of Novara, Italy.**

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**The University Academic Research Library of The Division of Endocrinology. The Children's Hospital.Los Angeles, Los Angeles USA.**

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**Name of Library:**

**The Library of Congress USA, GREY NET RESEARCH NETWORK AND BRITISH LIBRARY UK.**

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**Please See Portfolio of Academic, Clinical and Research Training and Publications List FOR OTHER DETAILS..**

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**PUBLICATION LIST AND THE BIBLIOGRAPHIC CITATIONS OF THE  
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 UDEMEZUEONYEKWELU.M.D.FRSE.,FRSA.,FRSH.,FRSPH., FOR THE CILED  
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10		<p>A specialised Role For The Application Of Educational Assessment in Novel Knowledge Acquisition Management.</p> <p>Academic Research Seminars &amp;Concourse on Assessment, Evaluation and Pedagogy.-----July 2019.</p>		
11		<p>The Hall Mark of A Credible, Reproducible, Rigorous and Robust Test.</p> <p>Academic Research Seminars &amp;Concourse on Assessment, Evaluation and Pedagogy.-----August 2019.</p>		
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15		An internationally standardised, structured and unified format for the Educational Assessment of The Research Project work and Defence For Thesis, Dissertation and Case studies, Book of the Students in College of Health Sciences Educational programmes..		
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		<p>Educational Assessment Tools in Health Sciences Research and Practice.</p> <p>Academic Research Seminars &amp;Concourse on Assessment, Evaluation and Pedagogy.-----February 2020.</p>		
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		<p>Questions, True / False Questions, Short Essay and Long Essay Questions, Oral and Practical Assessment In addition to Research Project work as an the optimal educational assessment standards in Health Sciences.</p> <p>Academic Research Seminars &amp; Concourse on Assessment, Evaluation and Pedagogy. May 2020.</p>		
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27.Onyekwelu.E. et al	The incidence of Haemophilus Influenza type B Paediatric Bacterial Meningitis following the Introduction of a Polysaccharide Conjugate Vaccine.				The First Annual Meeting of The Paediatric Bacterial Meningitis Surveillance Research Network WHO Regional Office Harare, Zimbabwe 2-6 September 2002	20%
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and The Advanced Paediatric Life Support(APLS)algorithm administered by Paediatricians in a Paediatric Emergency Department in West Africa.

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35	Onyekwelu.E.U. et al.	The Impact on Mortality/Morbidity from The Haemophilus Influenzae Type B Paediatric Bacterial Meningitis in Children under the age of Five years of age following the introduction of a generic protocol for Hospital based surveillance to estimate the burden of Haemophilus Influenzae type b Paediatric Bacterial Meningitis in Children and a Community based survey on the utilization of Health Care Services for Meningitis in Children	The Annual Meeting of The WHO-AFRO Accra, Ghana, 18-19 May 2005	20%
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**Selected Contributorships and Co-Operate Authorships to refereed peer reviewed original scientific publications from Sessional Substudies nested to the Investigators Membership and participation in Learned Academic Scientific Societies and Research Networks**

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1 Onyekwelu.E &other Research Associates.	Terrie.E.Taylor, Margaret Pinder et al on behalf of the SMAC Network. The prognostic Value of Measures		8.186 Oxford University Press Michigan State University

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1 Onyekwelu.E.U &Other SAP Sessional Investigator Members.	Epidemiology of Mechanical Ventilation in the SAPS 3 Study. Intensive Care Medicine in Press 2009. AO.Univ.-Prof.DDr.Philipp	5.168 Springer Verlag Belgium

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2	Onyekwelu.E.U &Other SAP Sessional Investigator Members.	End-of Life Practices in Intensive Care Units. Data from the SAPS 3 Database. Available on the Springer website. AO.Univ.-Prof.DDr.Philipp G.H.Metnitz. Undertook responsibility for the data and published work. SAP 3 Study ESICM&ESPNIC	5.168 Springer Verlag Belgium
3	Onyekwelu.E.U &Other SAP Sessional Investigator Members.	Moreno RP, Metnitz PhGH, et al on behalf of the SAPS S Investigators. Modeling Patient Survival during the First 28 Days after ICU Admission. A prognostic model for clinical trials in general critically ill patients.J Crit Care 2008; 23:339-348. SAP 3 Study ESICM&ESPNIC	5.168 Springer Verlag Belgium
4	Onyekwelu.E.U &Other SAP Sessional Investigator Members.	Moreno RP,Jordan B,Adler L,Hoechtl A, Bauer P,Metnitz PhGH,et al on behalf of the SAPS 3 Investigators. Sepsis Mortality Prediction based on Predisposition, Injury and Response. Intensive Care Med 2008; 34:496-504. SAP 3 Study ESICM&ESPNIC	5.168 Springer Verlag Belgium
5	Onyekwelu.E.U &Other SAP Sessional Investigator Members.	Metnitz B,Schaden E,Moreno R,Le Gall JR.Bauer P&Metnitz PhGH on behalf of the ASDI Study Group. Austrian Validation and Customization of the SAPS 3 Admission Score. Intensive Care Med 2009; In Press. SAP 3 Study ESICM&ESPNIC	5.168 Springer Verlag Belgium
	<b>Contributor(s) Sessional Investigator Member(s)</b>	<b>Author(s) Title Volume Number Pages Journal Article Provenance Societal Substudies</b>	<b>Publishers, Cumulative Journal Impact Factor&amp;H- Index AT Publication Time</b>
6	Onyekwelu.E.U Other SAP Sessional	The Epidemiology and outcome of hospital-acquired bacteremia. Euro-Bact.Study ongoing.	5.168 Springer Verlag Belgium

Investigator Member(s).	Euroshot ESICM&ESPNIC	
7 Onyekwelu.E.U &Other SAP Sessional Investigator Members.	Azoulay E,Jordan B,Sprung C,Timsit JF,Lemaire F,Bauer P,Schlemmer B,Moreno R and Metnitz P,on behalf of the SAPS 3 investigators End-of-Life Practices in Intensive Care Units: Data from the SAPS 3 Database. Intensive Care Medicine; 2009; In press. SAP 3 Study ESICM&ESPNIC	5.168 Springer Verlag Belgium
8 Onyekwelu.E.U &Other SAP 3 Sessional Investigator Members.	Capuzzo M,Moreno RP,Metnitz PhGH,Jordan B,Bauer P on behalf of the SAPS 3 Investigators. Predictors of good and fast recovery of quality of life after intensive care. SAP 3 Study ESICM&ESPNIC	5.168 Springer Verlag Belgium
9 Onyekwelu.E.U &Other SAP Sessional Investigator Member(s).	Rothen HU, Stricker K, Einfalt J.Bauer P, Metnitz PGH, Moreno RP, Takala J.Variability in outcome and resource use in intensive care units. Intensive Care Med 2007; 33:1329-1336. SAP 3 Study ESICM&ESPNIC	5.168 Springer Verlag Belgium

#### **Occasional Peer Reviewed and Referred Scientific Themes published in Indexed Journals.**

	<b>Author(s) Title</b>	<b>Volume</b>	<b>Number Pages</b>	<b>% Contribution</b>	<b>Journal Indexing/ Cumulative Impact Factor&amp;H- Index AT Publication Time</b>
1	Onyekwelu.E A Methodological Study of Cases of Clinical Tetanus and the Impact of Moderated Sequential sedation on its Outcome. Paediatric Infectious Diseases Journal (LWW)June 2009,volume 28,Issue 6 pp 560-			100%	94 Wolters Kluwer Lippincott Williams &Wilkins

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|---|--|------|---|
| 2 | <p>Onyekwelu.E</p> <p>CT/Echocardiographic/Trancranial Transfontanel/Abdominal Ultrasonic Features in Paediatric Non-Syndromic Isolated Congenital Ophthalmopathies,Implications For the Detection of a Covert Congenital Rubella Syndrome</p> <p>Paediatric Infectious Diseases Journal(LWW)June 2009,volume 28,Issue 6 pp 560-e258</p> | 100% | <p>3.064</p> <p>94</p> <p>Wolters Kluwer<br/>Lippincott Williams &amp;Wilkins</p> |
| 3 | <p>Onyekwelu.E</p> <p>Probit Estimates of Chest Infections in Childhood Neuropsychopathology Using Incidental Chest Radiography Could Direct a Modified Subset Appropriate Immunizations/Antimicrobial Policy.</p> <p>Paediatric Infectious Diseases Journal(LWW) June 2009,volume 28,Issue 6 pp 560-e258</p>                            | 100% | <p>3.064</p> <p>94</p> <p>Wolters Kluwer<br/>Lippincott Williams &amp;Wilkins</p> |
| 4 | <p>Onyekwelu.E</p> <p>Cranial CT features Provide Insights into The Pathogenic Mechanisms For Informed Management Decisions in Childhood New Onset Febrile Status Epilepticus.</p> <p>Paediatric Infectious Diseases Journal(LWW) June 2009,volume 28,Issue 6 pp 560-e258</p>  | 100% | <p>3.064</p> <p>94</p> <p>Wolters Kluwer<br/>Lippincott Williams &amp;Wilkins</p> |
| 5 | <p>Onyekwelu.E</p> <p>Descriptive epidemiology of dog bites/maulings &amp; rabies/related infections in PICU/ED with implications for a more critical/holistic evaluations/, management strategies.</p> <p>Paediatric Infectious Diseases Journal(LWW) June 2009,volume 28,Issue 6 pp 560-e258</p>                                       | 100% | <p>3.064</p> <p>94</p> <p>Wolters Kluwer<br/>Lippincott Williams &amp;Wilkins</p> |

	<b>Author(s) Title Volume Number Pages</b>	<b>% Contribution</b>	<b>Cumulative Journal Impact Factor/H-Index AT Publication Time</b>
6	Onyekwelu.E Some occasional Interventional Difficulties in Childhood Diabetic Ketoacidosis(DKA),Hyperglycaemic Hyperosmolar syndrome(HHS)Precoma-Coma States with unusual features/Associations: The argument for a comprehensive systematic evaluation of cases for a directed timely apposite interventions. Paediatric Research Journal 578;296-297,Nov 2010	100%	2.803 Wolters Kluwer Lippincott Williams &Wilkins Semantic Scholar
7	Onyekwelu.E. The Diagnostic and Therapeutic aspects of Childhood Tuberculous Spondylitis (TBS) and Its Differentials with relevance to Interventions for angular Kyphosis/Abnormal Neurology. Paediatric Research 867:435,November 2010	100%	2.803 Wolters Kluwer Lippincott Williams&Wilkins Semantic Scholar
8	Onyekwelu.E. A closer look at Cryptogenic encephalopathies with deranged Hepato-Renal-Multiorgan dysfunctions consistent with Reyes Syndrome (RS) guides specific/Invasive interventions and follow ups. Paediatric Research 605:310,November 2010	100%	2.803 Wolters Kluwer Lippincott Williams &Wilkins Semantic Scholar
9	Onyekwelu.E. The Spectrum of compatible Landry-Guillain-Barre Syndrome in Childhood a Single centre experience: An analysis of 48 cases. Paediatric Research 651:333-334.November 2010	100%	2.803 Wolters Kluwer Lippincott Williams &Wilkins Semantic Scholar
10	Onyekwelu.E. An annotated compilation of childhood pervasive disintegrative disorders (PPD) check lists with emphasis on differential algorithmic, diagnostic- therapeutic interventional approach. Paediatric Research 570-292, November 2010.	100%	2.803 Wolters Kluwer Lippincott Williams &Wilkins Semantic Scholar
11	Onyekwelu.E. The Clinico-Immuno-Patho-Radiological Spectrum of Juvenile Idiopathic Arthritis (JIA) with The Influence of the precedents. Associations of Its Subtypes on Interventions/Outcomes.	100%	2.803 Wolters Kluwer Lippincott Williams &Wilkins Semantic Scholar



12	Paediatric Research 847:425 November 2010. Onyekwelu.E. The antecedents, Natural History and Interventions of Brachial Plexopathies (BPS); with Implications for Patterns of Accidental and Non-Accidental Injuries. Pediatic Research 652:333-334; November 2010.	100%	2.803 Wolters Kluwer Lippincott Williams &Wilkins Semantic Scholar
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	<b>Author(s) Title Volume Number Pages Journal</b>	<b>% Contribution</b>	<b>Cumulative Indexed Journal Impact Factor/H-Index AT Publication Time</b>
13	Onyekwelu.E An overview of the heterogeneity and complexities in The Pathobiology,Molecular Mechanisms ,Natural history and Interventions in Paediatric Myasthenia Gravis(MG) Paediatric Research 653:334,November 2010	100%	2.803 Wolters Kluwer Lippincott Williams &Wilkins Semantic Scholar
14	Onyekwelu.E Cranial Computer Assisted Tomographic Scan in Hydrocephalus: Implications for the Identification of Plausible aetiopathogenic mechanisms and management strategies/options Virchow's Archives August 2009	100%	2.336 Springer Verlig Berlin
15	Onyekwelu .E Occult Para-Infectious Related Recurrent extreme ambulatory failures in a well adapted case of childhood Duchene's Muscular Dystrophy (DMD) European Paediatric Neurology Journal May 2011	100%	3.765 Elsevier
16	Onyekwelu.E The Skeletal Muscle; The Accessible Gateway to The Heart ,A Natural history study of Cardiomyopathies in Inherited muscular dystrophies(MDS) European Paediatric Neurology Journal May 2011	100%	3.765 Elsevier
17	Onyekwelu.E.	100%	3.064

	The Application of Ultrasonic Echographic and Roentgenographic features in the diagnosis of Paediatric pulmonary and extrapulmonary Tuberculosis and its complications Paediatric Infectious Disease Journal (LWW)June 2009 vol 28, Issue 6 pp 560-e258		94 Wolters Kluwer Lippincott Williams &Wilkins
18	Onyekwelu.E. Invasive E.Coli Septicaemia complicated by acute hepatic failure and haemolytic syndrome in a fourteen year old male child from a developing country. Paediatric Infectious Disease Journal (LWW)June 2009 vol 28, Issue 6 pp 560-e258	100%	3.064  94 Wolters Kluwer Lippincott Williams &Wilkins
19	Onyekwelu.E Chest Roentgenographic Features In Paediatric Clinical Measles, and Its implications on Nomenclature Management and Outcome (Morbidity and Mortality) in The Tropics. Paediatric Infectious Disease Journal (LWW)June 2009 vol 28, Issue 6 pp 560-e258	100%	3.064  94 Wolters Kluwer Lippincott Williams &Wilkins

	<b>Author(s) Title Volume Number Pages Journal</b>	<b>% Contribution</b>	<b>Cumulative Journal Impact Factor/H-Index AT Publication Time</b>
20	Onyekwelu.E. The features of Non-Classical Immune Down Regulatory Effects of Complete classical Rachitic Osteodystrophy in a 2 year male child. Paediatric Infectious Disease Journal Paediatric Infectious Disease Journal (LWW)June 2009 vol 28, Issue 6 pp 560-e258.	100%	3.064  94 Wolters Kluwer Lippincott Williams &Wilkins
21	Onyekwelu.E.U.G. Imaging Features in Paediatric Haemoglobinopathic crisis with implications for acute chest syndromes. European Radiology .February 2009; Supplement 1, vol.19, p587-618, 32p.	100%	3.65 Springer Verlag

22	Onyekwelu.E	100%	3.064
	Massive Composite Ascites due to Cryptogenic Cirrhosis and Occult Mycobacterium Tuberculosis in a 13 year old girl		94
	Paediatric Infectious Disease Journal (LWW)June 2009 vol 28,Issue 6 pp 560-e258		Wolters Kluwer Lippincott Williams &Wilkins

**Selected Peer Reviewed Occasional Scientific Themes Published in congressional Conference Proceedings and online Journal Supplements.**

Author(s)	Title and Publication Number	Congress/Complimentary Journal Impact Factor/H-I&Publishers	% Contribution
1 Onyekwelu.E .U	The case for a gender differential approach in the evaluations/interventions in uncommon childhood paroxysmal events.	15 <sup>th</sup> International Congress of the European Federation of Neurological Societies Budapest, Hungary September 10-13,2011 European Neurology S(1) July 2011 Impact Factor:2.510 Wiley-Blackwell Publishing Inc. Index Copernicus value :34.61 Impact Factor:2.580	100%
2 Onyekwelu.E .U	Positive Attitudinal change in the established horizons of the health care seeking behaviors of parents and care givers of children with neuropsychopathologies following a standardized proffer of evidence based novel instrumentations and interventions.	Society for Applied Neurosciences(SAN) &Group of Applied Neurosciences(GAP) 2011 Conference Thessaloniki, Greece, May 5-8 2011 Neuroscience Letters Impact Factor:2.180 Elsevier	100%
3 Onyekwelu.E .U	Observational notes on the evaluations in the intricacies, chronology and dimensions of gastroenteritic	Society for Applied Neurosciences(SAN) &Group of Applied Neurosciences(GAP) 2011 Conference Thessaloniki,	100%

related  
multisystemic  
syndromes with  
neurological  
complications

Greece, May 5-8 2011  
Neuroscience Letters  
Impact Factor:2.180  
Elsevier

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<b>Author(s)</b>	<b>Title and Publication Number</b>	<b>Congress/Complimentary Journal Impact Factor/H-I&amp;Publishers</b>	<b>% Contribution</b>
4 Onyekwelu.E.U	Differential Estimates of Febrile Seizures/Parainfectious Seizures in a Tropical Setting using a Basic Algorithmic certainty classifiers directs neuro-protective options	20 <sup>th</sup> Congress of The European Society of Paediatric and Neonatal IntensiveCareMedical&Nursing Annual Congress Verona Italy, June 14-17, 2009.Intensive Care Medicine Impact Factor:5.168 Springer Verlag Belgium	100%
5 Onyekwelu.E	Routine monitoring of pharmacotherapeutic toxicities In neuropsychopathologies /connectivopathies needing critical care interventions in a tropical setting using basic techniques.	20 <sup>th</sup> Congress of The European Society of Paediatric and Neonatal Intensive Care Medical&Nursing Annual Congress Verona Italy, June 14-17, 2009. Intensive Care Medicine Impact Factor:5.168 Springer Verlag Belgium	100%
6 Onyekwelu.E	Estimates of Immune Competence In children aged below five with symptomatic neuropsychopathologies needing critical care interventions in a tropical setting.	20 <sup>th</sup> Congress of The European Society of Paediatric and Neonatal Intensive Care Medical&Nursing Annual Congress Verona Italy, June 14-17, 2009. Intensive Care Medicine Impact Factor:5.168 Springer Verlag Belgium	100%
7 Onyekwelu.E.	Incidence of Inappropriate ADH Secretion in Children with	20 <sup>th</sup> Congress of The European Society of Paediatric and Neonatal	100%

neuropsychopathologies  
needing critical care using  
hyponatraemia/urine  
specific gravity as proxies.

Intensive Care  
Medical&Nursing Annual  
Congress Verona Italy,  
June 14-17, 2009.  
Intensive Care Medicine  
Impact Factor:5.168  
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congressional Conference Proceedings and online Journal Supplements.**

<b>Author(s)</b>	<b>Title and Publication Number</b>	<b>Congress/Complimentary Journal Impact Factor/H- I&amp;Publishers</b>	<b>% Contribution</b>
9 Onyekwelu.E	The Neurological Impact Following Critical Care Interventions of Cases Followed up in The Childs Neurology Clinic of a Tropical Setting	20 <sup>th</sup> Congress of The European Society of Paediatric and Neonatal Intensive Care Medical&Nursing Annual Congress Verona Italy, June 14-17, 2009. Intensive Care Medicine Impact Factor:5.168 Springer Verlag Brussels	100%
11 Onyekwelu.E	The Patho-Radio-Clinical Correlation of Aerodynamically/Haemodynamically significant Congenital Structural Cardiac Defects/Its Corrections Using Incidental Echocardiography in anticipation of definitive Interventions.	European Society of Paediatric and Neonatal Intensive Care Medical&Nursing Annual Congress Verona Italy, June 14-17, 2009. Intensive Care Medicine Impact Factor:5.168 Springer	100%
12 Emmanuel Onyekwelu, Pa Kinteh,Alfredo Gonzalez	Cranial Computer Assisted Tomographic Scans features in Dementias	6 <sup>th</sup> Baltic Congress of Neurology 13-16 <sup>th</sup> May 2009 Vilnius Lithuania.	33%
13 Emmanuel Onyekwelu, Pa	Cranial Computer Assisted Tomographic Scans features in acute hemiplegia of childhood.	6 <sup>th</sup> Baltic Congress of Neurology 13-16 <sup>th</sup> May 2009 Vilnius Lithuania.	33%

	Kinteh,Alfredo Gonzalez			
14	Emmanuel Onyekwelu, Pa Kinteh,Alfredo Gonzalez	Cranio-facial Computer Assisted Tomographic Features in Neurocutaneous Syndromes	4 <sup>th</sup> Fred J.Epstein Symposium on New Horizons in Paediatric Neurology,Neurosugery andNeurofibromatosis.Eilat Israel ,March 15-19,2009	33%
15	Emmanuel Onyekwelu, Pa Kinteh,Alfredo Gonzalez	Computer Assisted Tomographic Features in New Onset Status Epilepticus.	4 <sup>th</sup> Fred J.Epstein Symposium on New Horizons in Paediatric Neurology, Neurosugery and Neurofibromatosis. Eilat Israel ,March 15- 19,2009	33%

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	<b>Author(s)</b>	<b>Title and Publication Number</b>	<b>Congress/Complimentary Journal Impact Factor /H-I&amp;Publishers</b>	<b>% Contribution</b>
17	Onyekwelu.E	The Application of Optimal Fluid, Electrolytes, Calorie Needs and Oxygen need in the management of Haemoglobinopathic crisis lessens the analgesics requirements.	20 <sup>th</sup> Congress of The European Society of Paediatric and Neonatal Intensive Care Medical&Nursing Annual Congress Verona Italy, June 14-17, 2009. Intensive Care Medicine Impact Factor:5.168 Springer	100%
18	Onyekwelu.E.	Estimation of the Incidence of Hypothenuria in Haemoglobinopathic Crisis in Tropical Settings could yield predictive figures for vital organs dysfunctions.	20 <sup>th</sup> Congress of The European Society of Paediatric and Neonatal Intensive Care Medical&Nursing Annual Congress Verona Italy, June 14-17, 2009. Intensive Care Medicine Impact Factor:5.168 Springer	100%
19	Onyekwelu.E	A modifiable descriptive	The 22 <sup>nd</sup> Congress of The	100%

	classification System for encephalopathic/neurotoxic acute childhood poisonings with remarks for commonly occurring contemporaneous Confounding pathologic factors.	European Society of Paediatric and Neonatal Intensive Care Medical &Nursing Annual Congress Hannover, Germany, November 2-5 2011. Impact Factor:5.168 Springer		
20	Onyekwelu.E	Cases of compatible Congenital Adrenal Hyperplasia presenting covertly with overlapping features suggestive of chronic persistent gastroenteritis/failure to thrive in female infants with clinician identified ambiguous genitalia highlight the need to evaluate all therapeutically difficult cases/its differentials meticulously for earlier identifications/interventions.	The 22 <sup>nd</sup> Congress of The European Society of Paediatric and Neonatal Intensive Care Medical &Nursing Annual Congress Hannover, Germany, November 2-5 2011. Impact Factor:5.168 Springer Verlag Belgium	100%

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	Author(s)	Title and Publication Number	Congress/Complimentary Journal Impact Factor /H-I&Publishers	% Contribution
29	Onyekwelu.E	Imaging Features Could Elucidate the extent/cardiopulmonary consequences of severe Anaemia in malignant haemopathy of childhood and directs appropriate interventions.	European Society of Paediatric and Neonatal Intensive Care Medical&Nursing Annual Congress Verona Italy, June 14-17, 2009. Intensive Care Medicine Impact Factor:5.168 Springer Verlag Brussels	100%
30	Onyekwelu.E	The Clinical Spectra and Outcome of Cases of Snake Bites seen in a Paediatric Emergency Department in	The 5 <sup>th</sup> Congress of the European Society of Emergency Medicine 15 <sup>th</sup> -18 <sup>th</sup> September 2008 Munich Germany	100%

		West Africa.	Impact Factor:0.901 Wolters Kluwer Lippincott Williams &Wilkins	
31	Onyekwelu.E	The Methodologic study and management of Bleeding Diathesis in the Paediatric Emergency and Intensive Care Department using a simple reproducible algorithm.	The 5 <sup>th</sup> Congress of the European Society of Emergency Medicine 15 <sup>th</sup> -18 <sup>th</sup> September 2008 Munich Germany Impact Factor:0.901 Wolters Kluwer Lippincott Williams &Wilkins	100%
32	Onyekwelu.E	The Clinical Spectrum and outcome of cases of Paediatric Bone Marrow Aplasias seen in a Paediatric Haematology and Oncology Unit in West Africa.	The 5 <sup>th</sup> Congress of the European Society of Emergency Medicine 15 <sup>th</sup> -18 <sup>th</sup> September 2008 Munich Germany Impact Factor:0.901 Wolters Kluwer Lippincott Williams &Wilkins	100%

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	<b>Author(s)</b>	<b>Title and Publication Number</b>	<b>Congress/Complimentary Journal Impact Factor /H-I&amp;Publishers</b>	<b>% Contribution</b>
3	Onyekwelu.	Craniofacial Computer Assisted Tomographic Features Childhood Idiopathic Seizures	The 14 <sup>th</sup> Mediterranean Meeting of Child Neurology with International participations 28 <sup>th</sup> -30 <sup>th</sup> May 2009 Marsala,Sicily,University Degli Studi di Roma Tor Vergata Italy	100%
3	E			
3	Onyekwelu.	Craniofacial Computer Assisted Tomographic Features in Infantile Spasms.	The 14 <sup>th</sup> Mediterranean Meeting of Child Neurology with International participations 28 <sup>th</sup> -30 <sup>th</sup> May 2009 Marsala,Sicily,University	100%
4	Onyekwelu.			
	E			



			Degli Studi di Roma Tor Vergata Italy	
3	Emmanuel	Cranial Computer Assisted		33%
5	Onyekwelu, Pa Kinteh, Alfred o Gonzalez	Tomographic Scans in Childhood Symptomatic seizures	6 <sup>th</sup> Baltic Congress of Neurology 13-16 <sup>th</sup> May 2009 Vilnius Lithuania.	
3	Onyekwelu. E	Craniofacial Computer Assisted Tomographic Features in Childhood Focal Simple Partial Seizures.	The 14 <sup>th</sup> Mediterranean Meeting of Child Neurology with International participations 28 <sup>th</sup> -30 <sup>th</sup> May 2009 Marsala, Sicily, University Degli Studi di Roma Tor Vergata Italy	100%
3	Emmanuel		Neuroimaging of developmental disorders. September 12-16, 2008 Dubrovnik, Croatia	33%
7	Onyekwelu, Pa Kinteh, Alfred o Gonzalez	CT of developmental disorders.		
3	Onyekwelu. E	Haemodynamically significant structural congenital cardiac defect, rickets, symptomatic seizures and acute hemiplegia in a male child.	The 14 <sup>th</sup> Mediterranean Meeting of Child Neurology with International participations 28 <sup>th</sup> -30 <sup>th</sup> May 2009 Marsala, Sicily, University Degli Studi di Roma Tor Vergata Italy	100%
8				
3	Onyekwelu. E	Craniofacial Computer Assisted Tomographic Features in Childhood & Juvenile Atonic Seizures	The 14 <sup>th</sup> Mediterranean Meeting of Child Neurology with International participations 28 <sup>th</sup> -30 <sup>th</sup> May 2009 Marsala, Sicily, University Degli Studi di Roma Tor Vergata Italy	100%
9				
	<b>Author(s)</b>	<b>Title and Publication Number</b>	<b>Congress/Complimentary Journal Impact Factor /H-I&amp;Publishers</b>	<b>% Contribution</b>
40	Onyekwelu.E	Craniofacial Computer Assisted Tomographic Features in Childhood Petit Mal seizures	The 14 <sup>th</sup> Mediterranean Meeting of Child Neurology with International participations 28 <sup>th</sup> -30 <sup>th</sup> May 2009 Marsala, Sicily, University	100%

41	Onyekwelu.E	The spectra nomenclature, management and outcome for Childhood Poisonings seen in the Paediatric Emergency Department in West Africa	Degli Studi di Roma Tor Vergata Italy European Congress of Emergency Medicine Munich Germany October 2008	100%
42	Taylor T, Pinder M, Onyekwelu .E.U et al	Progress and Challenges in The Diagnosis of Severe Malaria	The IRIDA Meeting 2006	10%
43	Onyekwelu.E .U	The knowledge and the use of The Grey Medical Literature by The Medical and Paramedical Staff of the University and Research Associated Institutions in developing Countries.	GL10 Conference 8-9 <sup>th</sup> December 2008 Amsterdam, The Netherlands.	100%
44	Taylor T, Pinder M, Onyekwelu .E.U et al	Predictors of Mortality in Severe Malaria in African Children in The Gambia.	The UK Medical Research Council Laboratories, Annual Scientific/Technical Research Report Series (2002):029.	10%
45	Taylor T, Pinder M, Onyekwelu .E.U et al	Accurate estimates of Severe Malaria Burden in Anticipation of an Intervention Trial.	The UK Medical Research Council Annual Scientific/Technical Research Series (2003):024.	10%

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congressional Conference Proceedings and online Journal Supplements.**

	<b>Author(s)</b>	<b>Title and Publication Number</b>	<b>Congress/Complimentary Journal Impact Factor /H-I&amp;Publishers</b>	<b>% Contribution</b>
46	Onyekwelu.E	Dimorphic Familial Osteodystrophy in Identical Twins	The International Society for Medical Specialties.. Academic Department of Paediatrics. University of Cairo Egypt International Congress of	100%

			PaediatricHepatology,Gastroenterology and Nutrition in collaboration with the International Association for the Study of the Liver(IASL) 15-18 <sup>th</sup> October,2008 Sharma El Sheikh Egypt.	
47	Onyekwelu.E	Growth Status in Bone Marrow Failure Syndromes	The International Society for Medical Specialties .Academic Department of Paediatrics. University of Cairo Egypt. International Congress of Paediatric Hepatology,Gastroenterology and Nutrition in collaboration with the International Association for the Study of the Liver(IASL) 15-18 <sup>th</sup> October,2008 Sharma El Sheikh Egypt.	100%
48	Sergio, Machin Rodriguez, Omar Feu,Manuel Aguilera, Frank Medina, José M,Emmanuel Onyekwelu	Invasive Paediatric Non-Hodgkin's Lymphoma in The Gambia. A case Report with Literature review.	The 7 <sup>th</sup> International Scientific Symposium .November 2007 The Gambia. West Africa.	33%
49	Onyekwelu.E. Pinder M	A Manual for the Training Programme to Fulfill the Script Writers involved in the implementation of the Power Of Radio Project needs in malaria control.	Centre for Innovation against Malaria The Gambia .West Africa .December 30 <sup>th</sup> 2002.	10%

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Author(s)	Title and Publication Number	Congress/Complimentary Journal Impact Factor /H-I&Publishers	% Contribution
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50	Onyekwelu.E.	The Clinical Laboratory ,Radiological Features and Outcome of Children With Clinical Measles seen at the Emergency Department of The Royal Victoria Teaching Hospital .The Gambia West Africa.	Breakfast Report Integrated Management of Childhood Illnesses (IMCI) February 2002.	100%
51	Onyekwelu.E. et al	The incidence of Haemophilus Influenza type B Paediatric Bacterial Meningitis following the Introduction of a Polysaccharide Conjugate Vaccine.	The First Annual Meeting of The Paediatric Bacterial Meningitis Surveillance Research Network WHO Regional Office Harare, Zimbabwe 2-6 September 2002	20%
52	Onyekwelu.E.	A comparative Analysis of the Validity of The Emergency Triage Assessment Treatment(ETAT) guidelines undertaken by Nurses and The Advanced Paediatric Life Support(APLS)algorithm administered by Paediatricians in a Paediatric Emergency Department in West Africa.	The Tropical Child Health Group. The Gambia West Africa. 21 <sup>st</sup> January 2000	100%
53	Onyekwelu.E.	The minimum incidence and The Diagnostic Criteria of Urinary Tract Infection in Childhood.	Round Table Discussion. The Tropical Child Health Group. The Gambia West Africa. 21 <sup>st</sup> January 2000.	100%
54	Onyekwelu.E. et al	Probit Estimates of The Epidemiology, Disease Burden, Morbidity and Mortality of Rotavirus Infections in Children under the age of Five years in The Gambia in anticipation of the Introduction of The Rota Virus Vaccine.	The Planning Meeting for The Rotavirus Surveillance WHO-AFRO Accra,Ghana,18-19 May 2005.	20%

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	<b>Author(s)</b>	<b>Title and Publication Number</b>	<b>Congress/Complimentary Journal Impact Factor /H-I&amp;Publishers</b>	<b>% Contribution</b>
55	Onyekwelu.E.U. et al.	The Impact on Mortality/Morbidity from The Haemophilus Influenzae Type B Paediatric Bacterial Meningitis in Children under the age of Five years of age following the introduction of a generic protocol for Hospital based surveillance to estimate the burden of Haemophilus Influenzae type b Paediatric Bacterial Meningitis in Children and a Community based survey on the utilization of Health Care Services for Meningitis in Children	The Annual Meeting of The WHO-AFRO Accra, Ghana, 18-19 May 2005	20%
56	Harbaum T,Pinder M Onyekwelu.E. et al	Determinants leading to Hospital Admissions and Pre-admissions Case Management of Paediatric Malaria in The Gambia, a Retrospective survey in The Royal Victoria Teaching Hospital Banjul, The Gambia. (London School of Tropical Medicine and Hygiene )	(London University Press September 2002)	20%
57	Onyekwelu E.	Paroxysmal events&Seizure disorders in childhood. Lecture series in Paediatric Neurology. 19 May 2006-March 2011	Lecture Notes. Delivered at an Invited Plenary Guest Lectures series. UTG March 2011	100%
58	Onyekwelu.E.	Clinico-Patho-radiological Updates on Non-Traumatic Coma in Childhood Lecture Notes In Paediatric Neurology	Lecture Notes. Delivered at an Invited Plenary Guest Lectures series. UTG March 2011	100%

**Selected Peer Reviewed Occasional Scientific Themes Published in  
congressional Conference Proceedings and online Journal Supplements.**

	<b>Author(s)</b>	<b>Title and Publication Number</b>	<b>Congress/Complimentary Journal Impact Factor /H-I&amp;Publishers</b>	<b>% Contribution</b>
59	Onyekwelu.E.	Conference Report on the integrated holistic approach to interventions against acute respiratory tract infections in childhood.	World Health Organization Regional Office Workshop The Gambia. West Africa June 2000	100%
60	Onyekwelu.E.U, Xiomara, Ameh .D, Hamer .C, Omar.S.	Several Faces of Childhood Burkitts Lymphoma. .	The Multi-disciplinary /Interdisciplinary Clinico-pathological conferences at the Royal Victoria Teaching Hospital, Independence Drive Banjul, The Gambia West Africa. 10 April 2000	30%
61	Onyekwelu.E.	Jackinsonian March/Seizures as the initial presentation of a non-ketotic hyperosmolar Diabetic Ketoacidosis in an elderly male Negroid African	The Academic Department of Internal Medicine, Nnamdi Azikiwe University Teaching Hospital, Nnewi, Anambra State, Nigeria, West December Africa 1993.	100%
62	Onyekwelu.E. Obu .H.A, Ike.I, Eraga. E.	An illustrative model of a rational approach to the multifaceted complexities in the aetio-pathogenic/interventional aspects of acute hemiplegia of childhood.	Multidisciplinary Clinico-pathological conferences at the Royal Victoria Teaching Hospital, Banjul, The Gambia West Africa. July 2000.	33%
63	Onyekwelu.E	Craniofacial Computer Assisted Tomographic Features Childhood Idiopathic Seizures	The 14 <sup>th</sup> Mediterranean Meeting of Child Neurology with International participations 28 <sup>th</sup> -30 <sup>th</sup> May 2009 Marsala,Sicily,University Degli Studi di Roma Tor Vergata Italy	100%

**Selected Peer Reviewed Occasional Scientific Published Themes.**

<b>No</b>	<b>Author(s)</b>	<b>Title&amp; Publication Number. Volume Number .Pages</b>	<b>Publishe rs</b>	<b>Congress Forum</b>	<b>Complimenta ry Journal Indexing</b>	<b>%  Contributio n</b>		
64	Onyekwelu.E et al	Acute Appendicitis in Adults and Childhood. Class.Rev. Sci.Med. 2014; 1: 3-8.	CRSM. Doctors Office.	The Medical Periodicals &Health Digest of Current Information Forum.	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of- Colorado School-Of- Public-Health Library -USA.	100%		
65	Onyekwelu.E et al	Tonsillitis and Pharyngitis in Adults and Childhood Class.Rev.Sci.Me d. May 2014; 1: 09-12.	C.R.S.M. Doctors Office.	The Medical Periodicals &Health Digest of Current Information Forum	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health	100%		

					Library -USA. Archive GRID.  ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health Library -USA. JURN. FOIA DATA. Bielefeld SE. Kidtopia. Infotopia.info. VLRC Alpha Marks.			
66	Onyekwelu.E et al	Drowning and Near Drowning in Adults and Childhood Class.Rev.Sci.Me d. May 2014; 1: 13-20	C.R.S.M. Doctors Office.	The Medical Periodicals &Health Digest of Current Information Forum	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health Library -USA. Online Computer Library Centre (OCLC). World Cat. Index.net	100%		
67	Onyekwelu.E et al	Constipation . in Adults and Childhood Class.Rev.Sci.Me d. May 2014; 1:21-24.	C.R.S.M. Doctors Office	The Medical Periodicals &Health Digest of Current Information Forum	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado	100%		



					School-Of-Public-Health Library -USA.  Virtual LRC.Com. Teacher Topia.			
68	Onyekwelu.E et al	The Systemic Complications of Malnutrition and Malnutrition Related Diabetes. Class. Rev. Sci.Med.2014; 4: Endocrin. Supple.	C.R.S.M. Doctors Office	The Medical Periodicals &Health Digest of Current Information Forum	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA. Easy Bib. Cite Factor. Academic Picarta. Portal to the WCC.	100%		

**Occasional Peer Reviewed and Referred Scientific Themes published in Indexed Journals.**

6 9	Author(s)	Title Volume Number Pages Journal	% Contribution	Cumulative Journal Impact Factor/H-Index AT Publication Time	
	Onyekwelu.E et al..	Hippocrates: The Origin and Father of Modern Medicine.The Classics and Revisits in Scientific Medicine.CRSM June 2014 Vol 1(2)20-32. History of Scientific Medicine.Volume 1 Supplement 1 June 2014	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA. Virtual LRC. Ref. Seek. Ref.Repository.	

70	Onyekwelu.E et al	The noble exit of a distinguished Physician Scientist and a notable Vaccinology legend: A Medical Scientific Institutional Eulogy and Epitaph on Jacinto Convit.Class.Rev.Sci.Med. 2014 1(2)33-36.Infectious Diseases Vaccinology& Immunology Vol 1 Supple 1 2014	100%	World ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA.d Cat Dissertations and Thesis. GreyNet.	
71	Onyekwelu.E et al	A medical scientific and collegiate experts working group's position statements and consensus recommendations on the extant, revised and updated versions of the Baby Friendly Hospital Initiative integrated and expanded into the Neonatal Intensive Care Unit. Class. Rev. Sci. Med. (Scientific Preventive Medicine with a Paediatric Slant) Vol 1(2)37-54	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA. Informit. Disaster Lit. US National Library of Medicine. Agency For Health Care Research and Quality.	
72	Onyekwelu.E et al .	The Historical Perspective and Some Aspects of the Biographic Notes of Roentgen and the discovery of X-rays. Class.Rev. Sci. Med. (Scientific Radiology Supp..2014 Vol 1(2)55-58)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA. Brain Pinkerton Web Spider. Electronic Books.	
73	Onyekwelu.E et al,	Angina Pectoris and Acute Chest Pain of Cardiac origin. The Class. Rev. Sci. Med. Cardiology Supple Vol 1 supp 1.Class. Rev. Sci Med. 2014 Vol 1(1) : 12-20	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health	

				Library -USA. Web Crawler. InfoSpace (NASDAQ Symbol) holdings LLC. System 1.	
7 4	Onyekwelu.E et al)	AcasestudyofOsteogenesis Imperfecta Congenital Fragilis with Blue Sclerotics in Childhoodinaneoid African (Rheumatology) Supp. Vol 1 supple 1).Class. Rev. Sci. Med. 2014 1(1) :21-27	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA. The Dutch Union Catalogue. Infotrieve. Global Health. TRIPS.	
7 5	Onyekwelu.E et al	A case study of Proteus Syndrome in Childhood with a selective Literature review (Scientific Interdisciplinary Themes) Supp.vol 1 supp1.Class. Rev. Sci. Med. 2014; 1(1): 29-47.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA. Sci-napse. The Library Carrot – [Carrot <sup>21</sup> Health Sciences on line. Mednar Grey Matters. OALSTER	

**Occasional Peer Reviewed and Referred Scientific Themes published in Indexed Journals.**

	Author(s)	Title Volume Number Pages Journal	% Contribution	Cumulative Journal Impact Factor/H-	
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				<b>Index AT Publication Time</b>	
76	Onyekwelu.E et al	A case study of Cervical Haemangiomas with Intracerebral extensions. (Scientific Interdisciplinary Themes) Supp.Vol 1 supp. 1).Class. Rev. Sci. Med. 2014.1(1):48-50.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health Library -USA. Medline Plus.gov. CC Advisor. Symptoma. Gray Lit. Trayad. Pluto Network	
77	Onyekwelu.E et al	Fanconi Anaemias in Childhood in Negriod Africans. (Scientific Haematology Vol 1 supp. 1.Class.Rev. Sci. Med. 2014 .1(1): 50-70.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health Library -USA. Catalogue of Art Museum Images online. Articles First. Science Advance. Blucora.	
78	Onyekwelu.E.U, Azadeh H. et al	A critical review and discursive commentary on some selective qualitative and quantitative aspects of the subtle and peculiar features of symptomatic, idiopathic-cryptogenic neonatal serial seizures and neonatal status: retrospects and prospects with implications on diagnostic and therapeutic interventional strategies.Classics Revisits Sci.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health	

		Med.2014;1(4):218-272.		Library -USA. Open Door. Lib Guides. Intech Open. ERIC.	
79	Onyekwelu.E.U, Azadeh H. et al	Interdisciplinary collaborations for Interventional Novelties in Meconium aspiration syndrome; some emerging systematic therapeutic and diagnostic strategies to a known complex entity. Classics Revisits Sci. Med.2014; 1(4):388-409.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health Library -USA. World Wide Web Consortium. Bright Hub. Pearl Trees. Enquire.	
80	Onyekwelu.E. & Others.:	A comparative critical study of the extensive reviews and contributions towards the comprehension of the expanded spectrum of TLES ,TLE plus and subsets of partial seizure disorders or extra-temporal localisation related lesional epileptic syndromes associated with psychosomatic-stomatization symptomatologies , behavioural disturbances, convulsive equivalents and psychiatric phenomenologies with the seminal new concepts in their diagnostic and therapeutic interventional directions and investigative research frontiers.Classics Revisits Sci. Med.2014;1(4):273-338.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health Library -USA. Ingenta Connect. Galileo. Publishers Global. Popline. Pilots Database	
81	Onyekwelu E Azadeh H, Others.	The comparative historiographic facets and the uniqueness of the dissection and characterisation of the nosological,geographical,epidemiological and the pathological aspects of certain malignant lymphoproliferative disorders and	50%	. ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-	

		their other medical scientific historical oncological differentials.Classics Revisits Sci.Med.2014;1(4):340-387.340-387		Colorado School-Of-Public-Health Library -USA.  Monster Crawler. Zoo.Com. Zoo Search. Open Research Corpus Restful API	
82	Onyekwelu E Azadeh H. and Others.	Post Script Editorial Clinico-Patho-Radiological Note. The combined interdisciplinary holistic prophylactic approach to the diagnostic and therapeutic interventions for the hypothetical circular clinico- patho-radiological potentially overlapping spectral continuum of the defined pathognomonic and non-pathognomonic renal lesions in specified subtypes of diabetic mellitus.Classics Revisits Sci.Med.2014; 1(4): 463-536.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA.  Dog Piles. Yandex.Com. Crunch Base Semantic-Scholar	
83	Azadeh H, Onyekwelu.E and Others	Editorial Clinico-Patho-Physiological Note. A critical examination of the comparative illuminating and salient aspects of thermometry and the need for an age aggregate directed thermometric reference ranges and rationalised differential diagnostic and therapeutic interventional approach. From the Office and domiciliary diagnosis and therapeutics for febrile responses and hypothermia to their evidence based thermometry and therapeutic interventional strategies.Classics Revisits Sci.Med.2014; 1(4):410-462..410-462	50%	SCIPPIO. Proceedings First. Papers First ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA.	

**Occasional Peer Reviewed and Refereed Scientific Themes published in Indexed Journals**

	Author(s)	Title Volume Number Pages Journal	% Contribution	Cumulative Journal Impact Factor/H-Index AT Publication Time	
84	Azadeh H, Onyekwelu .E et al.	Perinatal asphyxia: an interphase and bridge between the neonatal emergency, the intensive care departments and the well baby infant or child's neurology clinic/department. From the basic neuro-pathological patterns of injuries to their clinical and neurologic significance and established and potential interventional approach Classics Revists.Sci.Med.2015; 2(2):72-187	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA.	
85	Onyekwelu .E ,Azadeh H,et al.	A multifocal systematic organic targeted diagnostic extrapolative predictive, prophylactic, prognostic and therapeutic interventional approach an effective ,plausible ,robust, cogent but unpopular strategic model for the overall holistic management of allergic diathesis or syndromes .Classics Revists.Sci.Med.2015; 2(2):188-302	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA	

86	Azadeh H, Onyekwelu .E et al.	The enigmatic peculiar, and predictive facets of the reciprocity and paradox between a miscellany of physiological, iatrogenic or pathological feminine phenomena and recognised epileptic and non- epileptic paroxysmal events. A multidisciplinary collaborative effort from basic medical scientific hypothesis to clinical scientific concepts and therapeutics and the link to the interphase between reproductive endocrinology, psychosocial medicine and epileptology. Classics Revists.Sci.Med.2015; 2(2):.303-407	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA	
87	Onyekwelu .E.	Editorial: A standardized and systematic, interactive educational and scholastic procedural approach for processing articles submitted for peer review and publication in an indexed interdisciplinary medical scientific journal. Classics Revisits Sci. Med.2014; 3:10-19.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library -USA	
88	Onyekwelu .E.& Others	An Intercollegiate Academic Symposium: Recent insights on the aetiology, pathogenesis, sequence of events and the signal for diagnostic and therapeutic interventions for syncope and unclassifiable paroxysmal events in childhood. Classics.Revisits.Sci.Med.2014; 3:36-52.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	

**Occasional Peer Reviewed and Referred Scientific Themes published in Indexed Journals**

Author(s)	Title	Volume	Number	Pages	Journal	% Contribution	Cumulative Journal Impact Factor/H- Index	



				<b>AT Publication Time</b>	
89	. Onyekwelu.E &Azadeh .H.	The International Journal Article Authors in Residence Spring Project: An International Review of Endocrinology Research and Current Practice: A medical scientific revisit to some instructive aspects of Larons syndrome.Classics.Revisits.Sci.Med.2014; 3:53-85.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of- Colorado School-Of- Public-Health Library-USA	
90	Onyekwelu.E &Azadeh .H. et al.	Remarks and Comments on The distinctive features of the International Institutional consensus development panel and authoritative expert nosology for seizure disorders and its influence/impact on the diagnostic and therapeutic interventional aspects. Classics Revisits Sci. Med.2014; 3: 86-134.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of- Colorado School-Of- Public-Health Library-USA	
91	Onyekwelu.E &Azadeh .H. et al	Editorial Annotation and Perspective on a current topical concept: An intercollegiate, expert working group and Scholarly Academic societal position statements and consensus guideline on the management of status epilepticus.Classics Revisits Sci. Med.2014; 3:135-169.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of- Colorado School-Of- Public-Health Library-USA	
92	Onyekwelu.E et al:	A Post Script Editorial: Cryptogenic erythrocytopaenia in epilepsia partialis continua: an exacerbated but unappreciated and unclassified clinical form, association, spectrum and phenomenology in epileptology.Classics Revisits Sci. Med. 2014; 3:170-.202.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of- Colorado School-Of- Public-Health Library-USA	

93	Onyekwelu. E. et al.	A Symptom Directed Encompassing Approach In The Evaluations OF Children With Haemoglobinopathy HBSS With A Miscellaneous Subsets OF Qualitative And Quantitative Potentially Bleeding Tendencies And Diathesis; The Need To Exclude Occult Covert Intracerebral Haemorrhage And Thrombotic Events. Classics Revisits Sci. Med. June 2018 Vol 5 Issue No. 1	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
	Onyekwelu.E. et al	Editorial Commentary: The occurrence of infantile osteosarcomas in one identical twin and of infantile retinoblastoma in his co-twin reiterates the need for an extensive search of tumours in sibs and family screening for tumours. Classics and Revisits in Scientific Oncology. Classics Revisits Sci.Med.2014; 4: Journal Articles in Press.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	

### **ORIGINAL RESEARCH.**

#### **ORIGINAL Published. RESEARCH.**

94	<b>Author(s)</b>	<b>Title Volume Number Pages Journal</b>	<b>% Contribution</b>	<b>Cumulative Journal Impact Factor/H-Index AT Publication Time</b>	
95	Onyekwelu E, Azadeh.H & Others	.An Exploratory Observational and Problem Solving PRE- Experimental Study. On Achieving The Diagnosis of Probable Congenital Nephrotic Syndrome or Congenital Nephritic Syndrome Through A Retrospective Historical Charting and Chronicles OF the Earliest Timing OF the Onset OF Symptomatology OF Oedema In	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-	

		Infant Children with The Triad OF Hypoalbuminaemia, Proteinurias And Oedema. (Especially Those Subsets with Steroid –Non Responsive or recidivist Oedema and Proteinuria) Is Prognostically And Prophylactically Rewarding Since Their Specific Diagnostic And Therapeutic Interventions Remarkably Differs. The Classics Revisits Sci. Med. Dec. 2018 Vol. 5 Issue No 1.		Of-Colorado School-Of-Public-Health Library-USA	
96	Onyekwelu E, Azadeh.H & Others	. A Combined evaluative Explanatory Survey With Meta-Content Analysis and Interpretation Of Prospective Diary Studies For Several Subsets of Periodic Paralysis. On The Occasional Very Deleterious Impact Of Transient Periodic Paralysis Overlapping With Unclassifiable Paroxysmal Events OR Chronic Fatigue Syndrome (Fibromyalgia) Supports The Use Of An In-depth Clinical Pathological Electrophysiological Evaluations Of Cases With Thyroid Dysfunctions, Migrainous Cephalgias with or without Neurological Sequelae For Compatible Features. The Classics Revisits Sci. Med. Dec. 2018 Vol. 5 Issue No 1.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley-University-Of-Colorado School-Of-Public-Health Library-USA	
97	Onyekwelu E, Azadeh.H & Others	An informative mix of education and novel Data. Recent diagnostic and therapeutic considerations for Electric shock Injuries: Naturalistic Inquiry, Participant Observation, structured Interviews and Documentary Content Analysis in addition to Media analysis for the Illustrative instructive Epitomes of the range and impact of electric shock related injuries. The age gender and seasonal differential variations in the pathophysiological effects of different intensities of electric current suggests the role of environmental, genetic, humoral, hormonal, metabolic, constitutional idiosyncratic factors and pathological states in the diathestic predispositions to electrical injuries and electrocutions. December 2018 Volume 5 Issue Number 1.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	
<b>98</b>	Onyekwelu E,	<b>The peculiar histriographic Facets of</b>	50%	ISSN	

	Azadeh.H & Others	<b><u>Burkitts Lymphoma.</u></b>		France. Safety (Lit). PIPER. SAVIR. Mendeley University- Of-Colorado School-Of- Public- Health Library-USA	
<b><u>99</u></b>	Onyekwelu .E	<b><u>CAROTID BODY TUMOUR A CASE STUDY &amp; LITERATURE REVIEWS . REPORTS OF RARE DISORDERS.</u></b>	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University- Of-Colorado School-Of- Public- Health Library-USA	
<b><u>100</u></b>	Onyekwelu .E	<b><u>Articles and Publications ON PATHOLOGIES WITH MARKED SEASONALITIES DURING THE WETS SEASONS A Position PAPER .</u></b>	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University- Of-Colorado School-Of- Public- Health Library-USA	

	<b>Author(s)</b>	<b>Title Volume Number Pages Journal</b>	<b>% Contribution</b>	<b>Cumulative Journal Impact Factor/H-Index AT Publication Time</b>	
101	Onyekwelu E,Azadeh.H & Others	Editorial for Classics and Revisits in Scientific Medicine 2015 Vol.2 (1):14 48.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
102	Onyekwelu E,Azadeh.H & Others	A revisit of the collaborative studies on Intrabdominal Hypertension and Intra-Abdominal compartment syndromes, a critical study and updated review of the pathophysiologic, therapeutic and investigational notes of compatible cases with selective literature reviews and follow up position statements from intercollegiate, interorganisational and institutional IAH/ACS consensus groups.ClassicsRevists.Sci.Med.2015; 2(1):49-119.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
103	Onyekwelu E,Azadeh.H & Others	An evaluation of the chronological Aspects in the features, the lesional topographical disposition and the dynamics of the CSF rheology in primary hydrocephalus and its differential of secondary hydrocephalus and pseudo tumour cerebri which were its adult's equivalents with directed multifaceted diagnostic and interventional therapeutic techniques.ClassicsRevists.Sci.Med.2015; 2(1):119-233.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
104	Onyekwelu.E, Azadeh .H. et al.	The peculiar and enigmatic spatial and temporal historiographic facets of the characteristics geographical, epidemiological, and clinico-radio-pathological and therapeutic aspects of Burkitt's Lymphoma as a distinctive subset and entity of non-Hodgkin's Lymphoma. Classics Revists.Sci.Med.2015; 2(1):234-310.	50%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	


### **Monographs, Booklets, Book Chapters and Text Books**

	<b>Author(s)&amp;Editors</b>	<b>Title Volume Number Pages</b>	<b>% Contribution</b>	<b>Publishers. Indexers, Aggregators.</b>	
1	Onyekwelu.E et al.	The Scientific Fundamentals of the Specific Interventions in Enuresis. Published 2012 to 2013.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	
2	Onyekwelu. E.et al.	Bleeding Diathesis In Haemoglobinopathies. September 2018 Classics and Revisits In Scientific Medicine. Volume 5; Issue Number 4; September 2018.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	

3	Onyekwelu.E et al.	The Historical aspects and the Scope of Medical Scientific dermatology. June 2014 Vol 1 Supplement 1. Classics and Revisits in Scientific Medicine.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
4	Onyekwelu.E et al	A Precise anatomical Data for the Gastrointestinal systems. Classics and Revisits in Scientific Medicine. Volume 1 Supplement 1 Issue I January 2014.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
5	Onyekwelu.E et al.	A Precise anatomical Data for the Hepatobiliary system Classics and Revisits in Scientific Medicine. Volume 1 Supplement 1 Issue I January 2014.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
6	Onyekwelu.E.et al.	Focus On Fetal, Prenatal and Neonatal Pathology, Neonatal Jaundice. July 2018 Classics and Revisits In Scientific Medicine. Volume 5; Issue Number 2; August 2018.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley.	

				University-Of-Colorado School-Of-Public-Health Library-USA	

### **Monographs, Booklets, Book Chapters and Text Books**

	<b>Author(s)&amp;Editors</b>	<b>Title    Volume    Number    Pages</b>	<b>% Contribution</b>	<b>Publishers. Indexers, Aggregators</b>	
7	Onyekwelu.E et al.	A directed anatomical study for the dermatological structures. Classics and Revisits in Scientific Dermatology. Volume 1 Supplement 1 Issue I January 2014.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
8	Onyekwelu.E et al.	Galen and Galenism. Classics and revisits in scientific history of medicine.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley.  University-Of-Colorado School-Of-Public-Health Library-USA	
9	Onyekwelu.E et al	The Intricacies in the developmental embryological, Anatomical and Functional Histological Aspects of the Established	100%	ISSN France. Safety (Lit). PIPER.	



		and Putative Endocrine Organs .Classics and Revisits in Scientific Medicine (Academic Scientific Hepatology Supplement) Supplement 1 Issue Number 1 June 2014.)		SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
10	Onyekwelu.E et al	The historical topography of the hepatobiliary system and the scope of hepatology. Classics and Revisits in Scientific Hepatology. Classics and Revisits in Scientific Medicine. (Academic Scientific Hepatology Supplement) Supplement 1 Issue Number 1 June 2014.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA University-Of-Colorado School-Of-Public-Health Library-USA	
11	Onyekwelu.E et al.	The historical aspects and the diversity of the primary modern scientific Gastroenterology (Hepatology and Gastroenterology) before their separation. Classics and Revisits in Scientific Medicine. (Academic Scientific Gastroenterology Supplement) Supplement 1 Issue Number 1 June 2014.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
12	Onyekwelu.E et al	Necrotizing Enterocolitis and Neonatal Intestinal Failures. Classics Revisits Sci.Med.2014; 4:	100%	ISSN France. Safety (Lit). PIPER. SAVIR.	

				Mendeley.  University-Of-Colorado School-Of-Public-Health Library-USA	
13	Onyekwelu.E et al.	Varicocele as the initial most covert presentation of Hypernephroma in a 20 year old male Negroid African.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley.  University-Of-Colorado School-Of-Public-Health Library-USA	

#### **Monographs, Booklets, Book Chapters and Text Books**

	<b>Author(s)&amp;Editors</b>	<b>Title Volume Number Pages</b>	<b>% Contribution</b>	<b>Publishers. Indexers, Aggregators</b>	
<b>14</b>	Onyekwelu.E et al.	The historical themes of interest in the evolution of infectious disease from the ancient events to modern scientific infectious diseases and discussions on the dimensions of the discipline of infectious diseases. Classics and Revisits in Scientific Medicine. (Academic Scientific Infectious Diseases Supplement) Supplement 1 Issue Number 1 June 2014.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
<b>15</b>	Onyekwelu.E et al.	The Historical topography and scope of the relevant aspects of modern academic Scientific Endocrinology. Classics and Revisits in Scientific Medicine. (Academic Scientific Endocrinology Supplement) Supplement 1 Issue Number 2 June	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley.  University-Of-	

		2014.)		Colorado School-Of-Public-Health Library-USA	
<b>16</b>	Onyekwelu.E et al.	The peculiarities of the interests of the pioneers in early historical scientific Neonatology as Midwives, Obstetricians or physicians with professional and academic interests predominantly slanted towards Obstetrics, Highlights the relative novelty of neonatology as a specialty compared to the other disciplines in Medicine and Surgery. Classics and Revisits in Scientific Medicine. (Academic Scientific Neonatology Supplement 1 Issue Number 1 June 2014.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
<b>17</b>	Onyekwelu.E et al.	Onyekwelu.E et al. Some aspects of the Organisational structure and the purpose of the Neonatal Intensive Care Unit. Classics and Revisits in Scientific Medicine. (Academic Scientific Neonatology Supplement 1 Issue 1 June 2014.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	

#### **Monographs, Booklets, Book Chapters and Text Books**

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<b>18</b>	Onyekwelu.E et al	Discursive dissections and clarifications on the salient historiographic aspects in the histological, functional and the anatomical aspects of nephrology and a summary of the basic principles of the application of renal	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health	

		dialysis and the other renal replacement therapies. Classics and Revisits in Scientific Medicine. (Nephrology Supp. 1 Issue 1 June 2014.)		Library-USA	
<b><u>19</u></b>	Onyekwelu.E et al.	Chronicles of the historiographic trends of the origin and development of Scientific Neurology from the ancient practice of Neurology to the Modern Scientific Neurology. Classics and Revisits in Scientific Medicine. (Neurology Supp. 1 Issue 1 June 2014.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
<b><u>20</u></b>	Onyekwelu.E et al	Highlights of the genesis, course and remits of an academic medical scientific Oncologist. Classics and Revisits in Scientific Medicine. (Oncology Suppl) 1 Issue 1 June 2014.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley. University-Of-Colorado School-Of-Public-Health Library-USA	
<b><u>21</u></b>	Onyekwelu.E et al.	The historical notes on the significant contributions to Pulmonology and the Principles, Perspectives and Applications of Pulmonary Mechanical Ventilation. Classics. Revisits Sci. Med. (Scientific Pulmonology Supp. 1 Issue 1 June 2014.	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley.  University-Of-Colorado School-Of-Public-Health Library-USA	
<b><u>22</u></b>	Onyekwelu E. et al	Focus On Fetal, Prenatal and Neonatal Pathology, The Twin to Twin Transfusion Syndrome, Acute trans/intraplacental fetus to fetus bleeding and dizygotic twin erythrocyte mosiasim a notable implicating cause of iron deficiency anaemia in neonates. Classics and	. 100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	

		Revisits in Scientific Medicine. Volume 5 Supp. 1 Issue I January 2018			

### **Monographs, Booklets, Book Chapters and Text Books**

	<b>Author(s) &amp; Editors</b>	<b>Title Volume Number Pages</b>	<b>% Contribution</b>	<b>Publishers. Indexers, Aggregators</b>	
<b>23</b>	Onyekwelu E. et al	Chronicles of the historiographic trends of the origin and development of Scientific Psychiatry from the ancient practice to the Modern Scientific Psychiatry Classics and Revisits in Scientific Medicine. Psychiatry Supp. 1 Issue 1 June 2015.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	
<b>24</b>	Onyekwelu E. et al	Chronicles of the historiographic trends of the origin and development of Scientific Emergency Medicine from the ancient practice to the Modern Scientific Emergency Medicine Classics and Revisits in Scientific Medicine. Emergency Medicine Supp. 1 Issue 1 June 2015.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	
<b>25</b>	Onyekwelu E. et al	Chronicles of the historiographic trends of the origin and development of Scientific Endocrinology from the ancient practice to the Modern Scientific Endocrinology Classics and Revisits in Scientific Medicine. Endocrinology Supp. 1 Issue 1 June 2015.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. M University-Of-Colorado School-Of-Public-Health Library-USA endeley	
<b>26</b>	Onyekwelu E. et al	Chronicles of the historiographic trends of the origin and development of Scientific Pulmonology from the ancient practice to the Modern Scientific Pulmonology Classics and Revisits in Scientific Medicine. Pulmonology Supp. 1 Issue 1 June 2015.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	

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<b>27</b>	Onyekwelu E. et al	Chronicles of the histriographic trends of the origin and development of Scientific Statistics from the ancient practice to the Modern Scientific Statistics Classics and Revisits in Scientific Medicine. Preventive Med Supp. 1 Issue 1 June 2015.)	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	
<b>28</b>	Onyekwelu E. et al	Chronicles of the histriographic trends of the origin and development of Scientific Preventive Med. from the ancient practice to the Modern Scientific Preventive Medicine Classics and Revisits in Scientific Medicine. Preventive Med Supp. 1 Issue 1 June 2015	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	
<b>29</b>	Onyekwelu E. et al	Chronicles of the histriographic trends of the origin and development of Scientific Immunology from the ancient practice to the Modern Scientific Classics and Revisits in Scientific Supp. 1 Issue 1 June 2015	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	
<b>30</b>	Onyekwelu E. et al	Chronicles of the histriographic trends of the origin and development of Scientific Allergenicity from the ancient practice to the Modern Scientific .Classics and Revisits in Scientific Medicine. 1 Issue 1 June	100%	ISSN France. Safety (Lit). PIPER. SAVIR. Mendeley University-Of-Colorado School-Of-Public-Health Library-USA	

**A CONCISE DESCRIPTION OF MY EDUCATIONAL ASSESSMENT, EXAMINATION, MENTORING, PEDAGOGIC ,SCIENTIFIC AND DIDACTIC ACTIVITIES IN ANATOMICAL SCIENCES.**

Currently, I teach, examine and mentor students in anatomical sciences, human biology, pathological sciences, pathobiological sciences, genetics, therapeutics, pharmacology, pathophysiology, comparative and human anatomical sciences, embryology, histology and their applied biological sciences of accident and emergency medical, surgical sciences etc in addition to the historiographic scientific aspects of these themes.

I have authored, edited, reviewed and published several main stream and grey literature journal articles, books, booklets and monographs etc in Anatomical Sciences such as but not confined to: [1] A precise anatomical data for the Gastrointestinal System [2]-A precise anatomical data for the Hepatobiliary system [3]-A precise anatomical data for the Neurological System [4]-A precise anatomical data for the Cardiovascular System [5]-A Precise Anatomical Data For The Pulmonary System [6]-A precise anatomical data for the Endocrinological system

[7]-A precise anatomical data for the Immunological System [8]-A precise anatomical data for the Dermatological and Integumentary System [9]-A precise anatomical data for the Reproductive System [10]-A precise anatomical data for the Musculoskeletal System.

In addition to several thematic aspects of Splanchnology etc.

**COURSE TITLE:**

**EMBRYOLOGY AND HISTOLOGY.**

**Course Description**

This course deals with basic thematic aspects of Human topographical and Applied Embryology and Histology their employ in the appreciation and evaluation of common Pathological ,Paediatric,Medical,Surgical ,Gynaecological and obstetrics conditions in a unified and synoptic framework to direct apposite diagnostic, prophylactic and therapeutic interventions.

### **Learning Outcomes/ Objectives**

At the end of the course, the student of Anatomical Sciences will be able to;

Appreciate and explore the basic topographical developmental and functional microscopic anatomical concepts to localise the common symptomatologies of patients in order to expedite initial diagnostic and therapeutic interventions to facilitate prompt referral where appropriate.

Apply the knowledge of topographical developmental and functional microscopic Anatomy to facilitate the acquisition of skills for basic clinical procedures in a routine, exigent, urgent and emergent clinical setting.

Employ the knowledge of developmental anatomy or embryology to appreciate and comprehend the basic processes of human development from conception through the embryonic and fetal periods until birth, and in this way appreciate how,when,where and why things go wrong in the common congenital malformations.

Comprehend and extrapolate the knowledge of Histology or functional microscopic Anatomy to appreciate how nature very closely matches structure to function and how these consistencies could be modified or lost in some physiological or pathological conditions.

### **Course Content&Description**

The Essense of Human Embryology

The Essense of the Bilaminar Germ Disc Layer.

The Essence of Trilaminar Germ Disc Layer

The (Development)of Trilaminar Germ Disc Layer



The Embryonic Period (Derivatives of The Ectodermal Germ Layer).

The Embryonic Period (Derivatives of the Mesodermal Layer).

Derivatives of the Endodermal Germ Layer.

Derivatives of the Endodermal Germ Layer. (During further development the endodermal germ layer gives rise to the:

The Embryonic Period from The (Third to The Eight Week)

The Embryological Aspects of the Skeletal System.

The Embryological Aspects of the Skeletal System (The Skull)

The development of the diaphragm. The elements contributing to the diaphragm include:

The development of the diaphragm.

The Embryology and The Histological Structure OF The Trachea.

The embryological development of the heart (Essense and Process)

The embryological development of the heart (Essense and Process)

The fetal circulation (Essense and Transition at Birth)

The fetal circulation (Essense and Transition at Birth) and Applied Anatomy.

The Development of the oesophagus.

The development of the gastro-intestinal system.

The gastrointestinal adnexae, liver, gall-bladder and its ducts, pancreas and spleen.

The Development of The Pancreas

The embryology and congenital abnormalities of the kidney and ureter

The embryology of the fallopian tubes, uterus and vagina.

The Characterization and the description the structural components of the

The Bilaminar germ disc layer:

The Trilaminar germ disc layer.

The categorization and the description of the germ layer origin of all the cells, tissues, and organs systems of the body, and an annotation on their basic structural and functional units.

The embryological basis for the formation of an anomalous congenital Sacrococcygeal Teratoma and other congenital Teratomas.

To characterize with suitable examples a Teratoma and what are the possible anatomical and histological structures that could be seen in a Teratoma during operative surgical interventions.

With the aid of a diagrammatical representation to itemise and discuss the temporal sequence of the Functional microscopic, topographical developmental and applied developmental anatomical events that take place during the formation of the cardiac and vascular system and their common developmental anatomical defects.

To itemise and characterize the components of Tetralogy of Fallot and their embryological basis.

To itemise and discuss the temporal sequence of events that take place during the formation of the (a)-the arterial system (d) - the venous system (e) - the lymphatic system and their common developmental anatomical defects. (f)-Characterize and describe the embryonic haemoglobins.

With the aid of a diagrammatical representation to discuss the Functional microscopic and developmental anatomy of the Phrenic and the defects associated with its development.

To Define and Characterize the Foramen of Bochdalek defect and the Foramen of Morgagni defect.

To Define and characterize the topographical anatomical and applied anatomical defects in the Sliding Hiatus hernia and the rolling or paraoesophageal hiatus hernias.

With the aid of a diagrammatical representation to discuss the Functional microscopic and developmental anatomy of the lungs.

To characterize and define the structural and the functional microscopic anatomical component and the role of pulmonary surfactant.

To understudy ,what are the structural, topographical and functional microscopic defects associated with anomalous development of the Lungs?

To undertake with the aid of a diagrammatical representation discuss the Functional microscopic and developmental anatomy of the trachea.

To discuss the typology of the anomalous developmental defects of the trachea.

To understudy with the aid of a diagrammatical representation and, to discuss the Functional microscopic and developmental anatomy of the components of gastrointestinal system and adnexae (Pancrease, Liver, gallbladder and the spleen) and their possible associated congenital abnormalities.

To define and characterize the Meckels Diverticulum.

To describe the embryological basis for an omphalocele, a congenital volvulus, Left sided ascending colon, ano-rectal anomalies, Hirschsprung's disease (Aganglionic megacolon) etc.

To study and discuss with the aid of a diagrammatical representation the functional microscopic and developmental anatomy of the renal systems.

To itemise and annotate on the embryologic basis for congenital polycystic kidneys, ectopia vesicae, ectopic and bifid ureters, pelvic kidney, horseshoe kidneys, Marion's disease, Potters syndrome etc.

To discuss with the aid of a diagrammatical representation the functional microscopic and developmental anatomy of the male genital systems and the defects associated with it.

To discuss the embryological basis for: cryptorchidism and malpositioning of the male testes. Epispadias, Hypospadias etc.

To characterize the male gonadal aneuploidies with notable examples.

To discuss with the aid of a diagrammatical representation, the functional microscopic and topographical developmental and applied developmental anatomy of the male/female genital systems and their associated defects.

To characterize with notable examples, the male/female gonadal aneuploidies.

To comprehend the hormonal and genetic defects in the ambiguous genitalia of male and female infants.

To comprehend, the topographical, functional microscopic, developmental and applied Anatomy of The Thyroid Gland.

The topographical, functional microscopic, developmental and applied Anatomy of The Pituitary Gland.

Topographical, functional microscopic, developmental Anatomy of the sensory organs:

The Ears

The Eyes

The Tongue

The Nose. The Paranasal Sinuses.

The Larynx

To itemise, and comprehend, the typology ,examples and histological features of epithelia cells, cartilage, muscles tissue, bones .blood vessels, nervous tissues, neuroglial, microglia and an annotated diagrammatical representation of the basic functional and structural units of all the tissues and organ systems of the body etc.,

To comprehend, the topographical, functional microscopic, developmental anatomy of the Central Nervous System (The Brain and The Spinal Cord)

### **Methods of Instruction:**

Digital Photographs, Light Microscopy, Electron Transmission Microscopy, Scanning Electron Transmission Microscopy Immunofluorescence Microscopy, Phase Contrast Microscopy, Immunohistochemistry, molecular-pathology, mutation-analysis cytogenetics, toxicology, Imaging Techniques such as Digital Camera, X-rays, (Computer Tomographic Scans (CT Scans), Magnetic Resonance Imaging Scans (MRIs), Nuclear-Medicine-Techniques , Spectroscopy, Spectrometry, Electrophoresis, Chromatography and intraoperative , cadaveric and autopsy procedures. etc.

Lectures

Tutorials

Discussion groups

Guest lectures

Projects (e.g. case studies, poster presentation, seminar presentation)

Reading of articles from relevant scientific journals

### **Methods Of Course Assessment:**

Evaluation will be carried out in accordance with the Legacy university policy. The lecturer will present a written course outline with specific evaluation criteria at the beginning of the semester. Evaluation will be based on the following:

<b><u>Criteria</u></b>	<b><u>Marks</u></b>
Individual Works/Tasks	10
Class Tests	10

Class Assignments	10
Final Examination	70
TOTAL	100

**Pre-requisite courses:**

None

**Co-requisite course(s):**

None

**Recommended Reference Materials:**

Indexed Embryology and Histology Textbooks, Journals and Web.

**Course Description:**

This course deals with basic thematic aspects of human topographical and applied anatomy, embryology and histology their employ in the appreciation and evaluation of common Pathological Paediatric, Medical, Surgical, Gynaecological and obstetrics conditions in a unified and synoptic framework to direct apposite diagnostic, prophylactic and therapeutic interventions.

**Learning Outcomes/ Objectives**

At the end of the course, the student will be able to;

Appreciate and explore the basic topographical anatomical concepts to localise the common symptomatology of patients to expedite initial diagnostic and therapeutic interventions to facilitate prompt referral where appropriate.

Apply the knowledge of topographical Anatomy to facilitate the acquisition of skills for basic clinical procedures in a routine, exigent, urgent and emergent clinical setting.

Employ the knowledge of developmental anatomy or embryology to appreciate and comprehend the basic processes of human development from conception through the embryonic and fetal periods until birth, and in this way appreciate when and why things go wrong in the common congenital malformations.

Comprehend and extrapolate the knowledge of Histology or functional microscopic Anatomy to appreciate how nature very closely matches structure to function and how these consistencies could be modified or lost in some physiological or pathological conditions.

**Topographical Anatomy:**

**COURSE CONTENT&DESCRIPTION.**

### **Course Aims & Objective:**

At the end of this course in Topographical Anatomy, the student of Anatomical Sciences will be able to comprehend the basics and fundamentals of:

The Topographical and Applied Anatomy of the Thoracic Cage.

The Topographical Anatomy of The Coarctation of the aorta in addition to its (Essence, Typology and Features)

The (Topographical Anatomy and Clinical features) of The Thoracic Cage with relevance to The intercostal spaces (Topographical and Applied Anatomy) And The thoracic cage Topographical and Applied Clinical Anatomy.

The Topographical Anatomy and The Applied Anatomy of The Diaphragm (The Phrenic)

The Topographical Anatomy and The Applied Anatomy of The development of the diaphragm with emphasis on the elements contributing to the development of the diaphragm.

The other aspects of the Topographical Anatomy and the Applied Anatomy of The Diaphragm (The Phrenic)

The Topographical Anatomy and the Applied Anatomy of Diaphragm (The Phrenic) with relevance to (its movements during respiration)

The (Applied and Topographical Anatomy) of the pleurae.

The (Topographical and Applied Anatomy) of the trachea.

The (Topographical and Applied Anatomy) of the bronchi.

The (Topographical and Applied Anatomy) of the lungs.

The (Topography and Applied Anatomy) of the bronchopulmonary segments of the lungs.

The (Topography and Applied Anatomy) of the mediastinum (Topography and Applied Anatomy)

The (Topographical and Applied Anatomy) of the pericardium.

The (Topographical and Applied Anatomy) of the heart.

The (Topographical and Applied Anatomy) of the chambers of the heart.

The (Topographical and Applied Anatomy) of the chambers of the heart with relevance to the Right ventricle.

The (Topographical and Applied Anatomy) of the chambers of the heart with relevance to the Left atrium.

The (Topographical and Applied Anatomy) of the Chambers of the heart, with relevance to the (Left ventricle).

The (Topographical and Applied Anatomy) of the heart with relevance to the conducting system of the heart.

The (Topographical and Applied Anatomy) of the heart with relevance to the blood supply to the heart.

The (Topographical and Applied Anatomy) of the heart with relevance to the venous drainage of the heart.

The (Topographical and Applied Anatomy) of the heart with relevance to its Nerve supply and impulsations.

The (Topographic and Applied Anatomy) of the thoracic duct and cisterna chyli.

The (Topographical and Applied Anatomy) of the thoracic sympathetic trunk.

The (Topographical and Applied Anatomy)-thoracic sympathetic trunk branches.

Topographical and Applied Anatomy of The Thorax (The appreciation of a chest radiograph) the following features should be examined in every radiograph of the chest.

The topographical and applied anatomy of the abdomen.

The topographical and applied anatomy of the abdomen with relevance to the (Abdominal Incisions)

The topographical and applied anatomy of The pudendal as a nerve which runs through the Alcock's canal (Pudendal Canal), a duplicature of the fascia of the: Internal obturator muscle.

The topographical and applied anatomy of The Muscles and Bones of The Upper and Lower Limbs and Important Anatomical Spaces.

To Outline the osteological and myological components of the human skeletal system and depict their significant components with their nervous impulsation and vascular supply.

With notable examples characterize the concepts of anatomical and surgical fractures.

To Define the topographical and applied anatomy of the following anatomical regions.

The topographical and applied anatomy of the triangle of auscultation.

The topographical and applied anatomy of The Brachial plexus.

The topographical and applied anatomy of the axillary region and the mammary gland.

The topographical and applied anatomy of The Cubital Fossa.

The topographical and applied anatomy of The Space of Parona.

The topographical and applied anatomy of The Carpal Tunnel.

The topographical and applied anatomy of The hand, pulp and web spaces of the hand.

The topographical and applied anatomy of The Scapular arterial anastomoses, the arterial supply and the venous and lymphatic drainages of the upper limbs.

The topographical and applied anatomy of The Scapular Rotator Cuff Muscles.

The topographical and applied anatomy of The muscles of the flexor and extensor compartments of the arm and forearm.

The topographical and applied anatomy of The Lumbricals and Interosseous muscles of the hand

The topographical and applied anatomy of The arterial arches of the hand

The topographical and applied anatomy of The Femoral Triangle.

The topographical and applied anatomy of The Inguinal Triangle of Hasselbach.

The topographical and applied anatomy of The Femoral Canal.

The topographical and applied anatomy of The Subsartorial Adductor Canal of Hunter.

The topographical and applied anatomy of The Inferior Lumbar Triangle of Petit.

The topographical and applied anatomy of the Superior Lumbar Triangle.

The topographical and applied anatomy of the Popliteal Fossa.

The topographical and applied anatomy of the Quadriceps Femoris group of muscles.

The topographical and applied anatomy of the Hamstrings Group of Muscles.®-



The topographical and applied anatomy of the Lumbar Plexus.

The topographical and applied anatomy of the sacral plexus.

The topographical and applied anatomy of the anterior and posterior groups of the muscles of the lower limb.

The topographical and applied anatomy of the Arterial blood supply and the arterial arches of the feet in addition to the venous and lymphatic drainages of the upper limbs, hands, lower limbs and the feet.

The topographical and applied anatomy of Lumbricals and Interosseous muscles of the feet.

### **Head and Neck Anatomy:**

The General Topography of The Neck.

The topographical and applied anatomy of Deep Cervical Fascia (Four Parts)

The topographical and applied anatomy of Investing Fascia, Prevertebral fascia, Pretracheal fascia and the Carotid Sheath.

The topographical and applied anatomy of the Tissue Spaces of The Neck.

The topographical and applied anatomy of the Prevertebral space, Retropharyngeal Space, Parapharyngeal space and the Submandibular Space.

The topographical and applied anatomy of the Triangles of The Neck (Boundaries, Muscles and Contents)

The topographical and applied anatomy of The Posterior Triangle of the Neck, The Occipital Triangle of the Neck, The Subclavian Triangle of the Neck.

The topographical and applied anatomy of The Anterior Triangle of The Neck. (Boundaries, Muscles and Contents)

The topographical and applied anatomy of Submental Triangle (The Digastric Triangle  
The Carotid Triangle, The muscular triangle

The topographical and applied anatomy of The contents of the Posterior Triangle and  
The Sternocleidomastoid muscles, the Lymphnodes of the Posterior Triangle,  
Accessory Nerve and The Cervical Plexus

The topographical and applied anatomy of The inferior belly of the omohyoid, The  
transverse cervical vessels and the supraclavicular vessels, The third part of the  
subclavian artery and The external jugular vein

The topographical and applied anatomy of the Contents of The Posterior Triangle

The topographical and applied anatomy of The external jugular vein

The topographical and applied anatomy of The Levator Scapulae muscle.

The topographical and applied anatomy of The transverse cervical artery

The topographical and applied anatomy of The dorsal scapular nerve

The topographical and applied anatomy of the Scalenus posterior.

The topographical and applied anatomy of the Scalenus medius

The topographical and applied anatomy of the Scalenus anterior.

The topographical and applied anatomy of The Cervical Plexus:

The cervical plexus is a content of the posterior triangle.

The topographical and applied anatomy of the Dermatomes of the Neck.

The topographical and applied anatomy of The Anterior Triangle of The Neck

The topographical and applied anatomy of Suprahyoid Muscles.

The topographical and applied anatomy of Digastric Muscle, Stylohyoid, Mylohyoid and  
Geniohyoid.

The topographical and applied anatomy of INFRAHYOID MUSCLES:

The topographical and applied anatomy of Sternohyoid, Omohyoid, Thyrohyoid and  
Sternothyroid .

The Topographical and Applied Anatomy of The Thyroid Gland.

The Topographical and Applied Anatomy of The ParaThyroid Gland.

The Topographical and Applied Anatomy of The Trachea.

The Topographical, Functional Microscopic, developmental and Applied Anatomy of The Thyroid Gland.

The Topographical, Functional Microscopic, developmental and Applied Anatomy of the Uvula.

The topographical and applied anatomy of The Pituitary Gland. The Topographical, Functional Microscopic, developmental and Applied Anatomy of The Pharynx.

The topographical and applied anatomy of The Topographical, Functional Microscopic, developmental and Applied Anatomy of The Larynx.

The Topographical, Functional Microscopic, developmental and Applied Anatomy of The Gastrointestinal System and Adnexae.

The topographical and applied anatomy of The (The Cervical) Oesophagus.

The topographical and applied anatomy of The Carotid Sheath.

The topographical and applied anatomy of The Ansa Cervicalis.

The topographical and applied anatomy of The Suprahyoid Region.

The topographical and applied anatomy of The Platysma muscle..

The topographical and applied anatomy of the Anterior Jugular Veins.

The topographical and applied anatomy of Submental and submandibular lymphnodes.

The topographical and applied anatomy of the submandibular Fossa.

The Topographical and Applied Anatomy of The submandibular Gland.

The topographical and applied anatomy of the Great Vessels of The Neck.

The topographical and applied anatomy of the External Carotid Artery.

The topographical and applied anatomy of the superior the Thyroid Artery.

The topographical and applied anatomy of the Lingual Artery.

The topographical and applied anatomy of the Facial Artery.

The topographical and applied anatomy of the submental Artery.

The topographical and applied anatomy of the Occipital Artery.

The topographical and applied anatomy of the Posterior Auricular Artery.

The topographical and applied anatomy of the Ascending Pharyngeal Artery.

The topographical and applied anatomy of the Internal Carotid Artery.

The topographical and applied anatomy of the Internal Jugular veins.

### **The Topographical and Applied Anatomy Of Prevertebral Region.**

The topographical and applied anatomy of the Prevertebral Muscles of The Neck

The topographical and applied anatomy of the Rectus Capitis Anterior.

The topographical and applied anatomy of the Rectus Capitis Lateralis.

The topographical and applied anatomy of the Longus Capitis.

The topographical and applied anatomy of the Longus Colli.

### **The Topographical And Applied Anatomy Of CERVICAL SYMPATHETIC TRUNK.**

The topographical and applied anatomy of Cervical Part of the sympathetic trunk.

The topographical and applied anatomy of the Superior Cervical Ganglion.

The topographical and applied anatomy of the Middle Cervical Ganglion.

(The topographical and applied anatomy of the Inferior Cervical Ganglion.

The topographical and applied anatomy of the Stellate Ganglion or The Cervico-Thoracic Ganglion.

The topographical and applied anatomy of the Somatic, Visceral and Vascular Branches of the Cervical Sympathetic Trunk.

The topographical and applied anatomy of **the ROOT OF THE NECK.**

The Topographical, and Applied Anatomy of The Scalenus Anterior Muscles ,it's the anterior, medial, posterior and lateral relations.

The topographical and applied anatomy of Scalenus Medius Muscles.

The topographical and applied anatomy of Scalenus Posterior Muscles.

## **THE FACE.**

The topographical and applied anatomy of Skin of The Face.

The topographical and applied anatomy of Muscles of the Face (mainly sphincteric muscles from the panniculus carnosus without a deep fascia.)

The topographical and applied anatomy of the Muscles of the Eyelids.

The topographical and applied anatomy of the orbicularis oculi muscle (palpebral part)

The topographical and applied anatomy of the orbicularis oculi muscle (orbital part)

The Topographical and applied anatomy of the Levator palpebrae superioris.

The topographical and applied anatomy of the occipito-frontalis muscles.

The topographical and applied anatomy of the Muscles of The Nostrils

The topographical and applied anatomy of the Sphincter Muscles of the nostril.

The topographical and applied anatomy of the Compressor Naris

The Topographical and applied anatomy of the Dilator Naris.

The Topographical and applied anatomy of the Muscles of the Lips and Cheeks.

The topographical and applied anatomy of the Orbicularis Oris.

The Topographical and applied anatomy of The Buccinator.

The topographical and applied anatomy of The Dilator Muscles of the Lips

The topographical and applied anatomy of The Modiolus Muscle.

The topographical and applied anatomy of the Elevator Muscle fibres of the Lips.

The Topographical and applied anatomy of the Levator labii superioris alaeque nasi.

The Topographical and applied anatomy of the Levator Labii superioris.

The topographical and applied anatomy of the Levator anguli oris.

The Topographical and applied anatomy of the Zygomaticus Minor.

The topographical and applied anatomy of the Risorius muscle.

The Topographical and applied anatomy of the Depressor labii inferioris.

The Topographical and applied anatomy of the Nerve supply of the face muscles.

The topographical and applied anatomy of Posterior auricular branch of the Facial nerve which (supplies the occipital belly of occipito-frontalis)

A topographical and applied anatomy of muscular branch (supplies the posterior belly of digastric and stylohyoid muscle.

The topographical and applied anatomy of pes anserinus of the Facial nerve (A plexiform arrangement)

The topographical and applied anatomy of facial branches of the facial nerve.

Temporalis------(The)

Zygomatic branches. -----(Zebras)

Buccal Branches------(Brings)

Mandibular Branch (Marginal) -----(More)

Cervical Branch------(Crossings)

The topographical and applied anatomy of Sensory Nerve Supply of The Face.

The topographical and applied anatomy of Trigeminal Nerve. (Ophthalmic, Maxillary and Mandibular Branches)

The topographical and applied anatomy of Ophthalmic Nerve which (Has five cutaneous branches)

The topographical and applied anatomy of Lacrimal nerve.

The topographical and applied anatomy of supraorbital nerve.

The topographical and applied anatomy of infratrochlear nerve.

The topographical and applied anatomy of external nasal nerve.

The topographical and applied anatomy of Maxillary Nerve.(Has three cutaneous branches)

The Topographical and applied anatomy of Infraorbital nerve.

The Topographical and applied anatomy of Zygomaticofacial nerve.

The Topographical and applied anatomy of Zygomaticotemporal nerve.

The topographical and applied anatomy of Mandibular Nerve (Has three cutaneous branches)

The topographical and applied anatomy of the auriculotemporal nerve.

The topographical and applied anatomy of the buccal nerve.

The topographical and applied anatomy of the Mental Nerve.

The Topographical and applied anatomy of BLOOD SUPPLY OF THE FACE:

Topographical and applied anatomy of topographical and applied anatomy of Facial Artery.

Topographical and applied anatomy of Superior and Inferior Labial Artery.

Topographical and applied anatomy of Superficial Temporal Artery.

Topographical and applied anatomy of Transverse Facial Artery.

Topographical and applied anatomy of the supraorbital and supratrochlear branches of the ophthalmic artery.

The topographical and applied anatomy of the Venous Return From The face. (Usually entirely superficial)

The topographical and applied anatomy of the supra-orbital and supratrochlear veins

The topographical and applied anatomy of the angular veins.

The topographical and applied anatomy of the facial vein on accompanying the facial artery.

The topographical and applied anatomy of the facial vein noting that (Formerly the part above the retromandibular union was called anterior facial vein and the part below it the common facial vein.)

The Topographical and applied anatomy of the Tributaries of the superficial temporal vein.

The topographical and applied anatomy of the maxillary veins.

The topographical and applied anatomy of the pterygoid venous plexus.

The topographical and applied anatomy of the retromandibular vein

The Topographical and applied anatomy of the Anterior and posteriorretromandibular veins.

The topographical and applied anatomy of the Anterior retromandibular vein

The topographical and applied anatomy of the facial vein

The topographical and applied anatomy of the internal jugular vein.

The topographical and applied anatomy of the posterior retromandibular vein

The topographical and applied anatomy of the posterior auricular vein

The topographical and applied anatomy of the external jugular vein,

The topographical and applied anatomy of the subclavian vein.

The topographical and applied anatomy of the Deep Venous Anastomoses of The Face:

The topographical and applied anatomy of the Facial vein

The topographical and applied anatomy of the Cavernous Sinus.

The topographical and applied anatomy of the ophthalmic veins .

The topographical and applied anatomy of the Deep Facial Vein

The topographical and applied anatomy of angular veins

The deep facial veins .

The topographical and applied anatomy of the Lymphatic Drainage of The Face.(Mainly through three superficial Groups of Lymphnodes)

The topographical and applied anatomy of the Submental Nodes.

The topographical and applied anatomy of the Submandibular Nodes.

The topographical and applied anatomy of the Preauricular Group of Nodes.

The topographical and applied anatomy of the Deep Cervical Group of Lymphnodes is where they eventually drain to.

The topographical and applied anatomy of The Scalp.

The Scalp:

S-----Skin.



C-----Connective Tissue.

A-----Aponeurosis (Gela Aponeurotica)

L-----Loose connective Tissue.

P-----Periosteum.

The topographical and applied anatomy of the Forehead.

The topographical and applied Anatomy of The OccipitoFrontalis Muscle.

The topographical and applied anatomy of the Arteries of The scalp.

The topographical and applied anatomy of the occipital artery,

The topographical and applied anatomy of the posterior auricular artery,

The topographical and applied anatomy of the superficial temporal artery.

The topographical and applied anatomy of the external carotid artery,

The topographical and applied anatomy of the supraorbital and supratrochlear

The topographical and applied anatomy of the ophthalmic.

The topographical and applied anatomy of the Veins of The scalp.

The topographical and applied anatomy of the diploic veins from frontal, parietal and occipital bones.

The topographical and applied anatomy of the supraorbital vein and supratrochlear vein

The topographical and applied anatomy of the angular veins

The topographical and applied anatomy of the facial vein.

The topographical and applied anatomy of the superficial temporal veins

The topographical and applied anatomy of the retromandibular vein,

And the Occipital veins

The topographical and applied anatomy of the Venous plexus around the Semispinalis Capitis muscle

The topographical and applied anatomy of the posterior auricular vein

The topographical and applied anatomy of the mastoid emissary vein from the sigmoid sinus.

The topographical and applied anatomy of the Lymphatics of The Scalp.

The topographical and applied anatomy of the Nerve Supply of The Scalp.

The topographical and applied anatomy of the greater occipital and third occipital nerves (posterior rami of C2 and C3 respectively)

The topographical and applied anatomy of the lesser occipital nerve (anterior ramus of C2)

The topographical and applied anatomy of the auriculotemporal nerve and The Zygomaticotemporal nerve

The topographical and applied anatomy of the supratrochlear nerve and supraorbital nerve innervates the forehead and front of the scalp respectively.

The topographical and applied anatomy of the Temporal Fossa and The Zygomatic Arch.

The Topographical and Applied Anatomy of the Temporal Fossa.

The topographical and applied anatomy of the Zygomatic Arch

The topographical and applied anatomy of the Temporalis Fascia.

The topographical and applied anatomy of the Temporalis Muscle.

The topographical and applied anatomy of the parotid Region

The topographical and applied anatomy of the Masseter Muscle.

The Topographical and Applied Anatomy of The Parotid Gland.

The topographical and applied anatomy of the Infratemporal Region.

The topographical and Applied Anatomy of The Infratemporal Fossa.

The topographical and applied anatomy of the Boundaries of The Infratemporal Fossa.

The topographical and applied anatomy of the Contents of The Infratemporal Fossa.

The topographical and applied anatomy of the Medial Pterygoid Muscle.

The topographical and applied anatomy of the Lateral Pterygoid Muscle.

The topographical and applied anatomy of the insertion of the Temporalis Muscle into the Coronoid Process.

The topographical and applied anatomy of the Maxillary Artery and its Branches.

The topographical and applied anatomy of the Pterygoid Venous Plexus which drains into the Maxillary veins.

The topographical and applied anatomy of the Mandibular Nerve and its Branches.

The topographical and applied anatomy of the Otic ganglion.

The topographical and applied anatomy of the Chorda Tympani.

Topographical and applied anatomy of the Posterior Superior Alveolar Branches of the Maxillary Nerve.

Topographical and applied anatomy of The Sphenomandibular ligament.

Topographical and applied anatomy of The Mylohyoid nerve.

Topographical and applied anatomy of The Mylohyoid Artery.

Topographical and applied anatomy topographical and applied anatomy of The Mandibular Nerve(Branches):

Topographical and applied anatomy of The Meningeal Branch (or Nervus Spinosus).

Topographical and applied anatomy of The Nerve to The Medial Pterygoid Muscle.

Topographical and applied anatomy of The Mandibular Nerve (Branches from The Anterior Division):

Topographical and applied anatomy of The Deep Temporal Branches.

Topographical and applied anatomy of The Masseteric Nerve.

Topographical and applied anatomy of The Nerve to The Lateral Pterygoid Muscle.

Topographical and applied anatomy of The Buccal Nerve.

Topographical and applied anatomy of The Mandibular Nerve (Branches from The Posterior Division):

The topographical and applied anatomy of the Auriculotemporal Nerve.

The topographical and applied anatomy of the inferior alveolar nerve.

The topographical and applied anatomy of the Lingual Nerve.

The Topographical and Applied Anatomy of the Chorda tympani.

The Topographical and Applied Anatomy of the Otic Ganglion.

The topographical and applied anatomy of the Carotid Sheath and The Cranial Nerves:

The topographical and applied anatomy of the Glossopharyngeal Nerve(Branches).

The topographical and applied anatomy of the Inferior and Superior Ganglion of the Glossopharyngeal Nerve.

The topographical and applied anatomy of the Glossopharyngeal Nerve (Its Six Branches).

The topographical and applied anatomy of the tympanic branch (Jacobson's Nerve) of the Glossopharyngeal Nerve.

The topographical and applied anatomy of the motor branch to the Stylopharyngeus Muscle of the Glossopharyngeal Nerve.

Topographical and applied anatomy of the Carotid Sinus Nerve branch of the Glossopharyngeal Nerve.

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Topographical and applied anatomy of Pharyngeal branches of the Glossopharyngeal Nerve.(one or more pharyngeal branches join the pharyngeal nervous plexus.

The topographical and applied anatomy Tonsillar Branch of the Glossopharyngeal Nerve.

The topographical and applied anatomy Lingual Branch of the Glossopharyngeal Nerve.

The topographical and applied anatomy of the Central Connexions of the Glossopharyngeal Nerves.

The Topographical and Applied Anatomy of the Vagus Nerve.

The topographical and applied anatomy of the Superior and Inferior Ganglion of the Vagus Nerve.

The topographical and applied anatomy of the Vagus Nerve Branches in The Neck.

The topographical and applied anatomy of the Meningeal Branches of the Vagus Nerve.

The topographical and applied anatomy of the Auricular Branch of the Vagus Nerve.

The topographical and applied anatomy of the of Carotid Body Branch of the Vagus Nerve.

The topographical and applied anatomy of the Pharyngeal Branch of the Vagus Nerve.

The topographical and applied anatomy of the Superior Laryngeal Branch of the Vagus Nerve.

The topographical and applied anatomy of the Cervical Cardiac Branches of the Vagus Nerve.

The topographical and applied anatomy of the Recurrent Laryngeal Branches of the Vagus Nerve.

The topographical and applied anatomy of the Accessory Nerve Branches in The Neck.

The topographical and applied anatomy of the Cranial and Spinal Accessory Nerve roots in The Neck.

The topographical and applied anatomy of the cranial root fibres of the Accessory Nerve Branches which join the Vagus nerve.

The topographical and applied anatomy of the remaining cervical fibres giving off a branch to the Sternocleidomastoid Muscle.

The topographical and applied anatomy of the Nerve to the Trapezius Muscle.

The Topographical and applied anatomy of the Efferent proprioceptive fibres from the Trapezius muscle which reach the spinal cord in the ordinary way through the C2 and C3 for the Sternocleidomastoid and through the C3 and C4 for the Trapezium muscle respectively.

The topographical and applied anatomy of the Hypoglossal Nerve.

The Topographical and applied anatomy of the Ramus from the C1 nerve root component of the Hypoglossal nerve..

The Topographical and applied anatomy Non-lingual branches formed by hitch-hiking C1 fibres.

The Topographical and applied anatomy of the Small meningeal branch of the Hypoglossal nerve.

The Topographical and applied anatomy of The Hypoglossal nerve Branch to Ansa Cervicalis(Ansa hypoglossi) .

Topographical and applied anatomy of The Hypoglossal nerve Branches to Thyrohyoid and Geniohyoid muscles.

The topographical and applied anatomy Hypoglossal nerve Fibres to The muscles of the Tongue.

The topographical and applied anatomy of the Styloid Apparatus

The topographical and applied anatomy of the Styloid Process.

The topographical and applied anatomy of the Stylohyoid Ligament.

The topographical and applied anatomy of the stylopharyngeus Muscle.

The topographical and applied anatomy of the Styloglossus Muscle.

The topographical and applied anatomy of the Stylomandibular Ligament.

The topographical and applied anatomy of the External Carotid Artery.

The topographical and applied anatomy of the PTERYGOPALATINE FOSSA.

Topographical and applied anatomy of the Boundaries of The Pterygopalatine Fossa.

Topographical and applied anatomy Contents of The Pterygopalatine Fossa.

The topographical and applied anatomy of the Maxillary Nerves.

The topographical and applied anatomy of the Maxillary Arteries.

The topographical and applied anatomy of the Maxillary Veins.

The topographical and applied anatomy of the Pterygopalatine Ganglion.

Topographical and applied anatomy of the Trace and The course and Branches of The maxillary Nerve in The Pterygopalatine Fossa.

The topographical and applied anatomy of the Pterygopalatine Ganglion.

The topographical and applied anatomy nerve of the pterygoid Canal (Vidian Nerve)

The topographical and applied anatomy of the Five Nerve branches of the Pterygopalatine ganglion

The topographical and applied anatomy of the Nasopalatine nerve ( formerly the long Sphenopalatine)

The topographical and applied anatomy of the Lateral Posterior Superior Nasal Nerves (formerly the short Sphenopalatine)

The topographical and applied anatomy of the Greater Palatine Nerve

The topographical and applied anatomy of the Lesser Palatine Nerves

The topographical and applied anatomy of the Pharyngeal Nerve and its One or two very fine orbital branches

The topographical and applied anatomy of the five branches of the Maxillary

Topographical, functional microscopic, developmental Anatomy of the sensory organs:

The topographical and applied anatomy of the Ears

The topographical and applied anatomy of the Orbit and The Eyes

The topographical and applied anatomy of the Nose.

The topographical and applied anatomy of the Paranasal Sinuses.

The topographical and applied anatomy of The salivary glands.

The topographical and applied anatomy of The parotid gland.

The topographical and applied anatomy of The submandibular gland.

The topographical and applied anatomy of The sublingual gland.

The topographical and applied anatomy of The major arteries of the head and neck.

The topographical and applied anatomy of The common carotid arteries.

The topographical and applied anatomy of The external carotid artery.

The topographical and applied anatomy of internal carotid artery.

The topographical and applied anatomy of The subclavian arteries.

The topographical and applied anatomy of The veins of the head and neck.

The topographical and applied anatomy of The cerebral venous system.

The topographical and applied anatomy of The venous sinuses of the dura.

The topographical and applied anatomy of The internal jugular vein.

The topographical and applied anatomy of The subclavian vein.

The topographical and applied anatomy of The lymph nodes of the neck, 306

The topographical and applied anatomy of The cervical sympathetic trunk

The topographical and applied anatomy of The branchial system and its derivatives such as the Branchial cyst and fistula

The topographical and applied anatomy of The surface anatomy and surface markings of the head.

The topographical and applied anatomy of The scalp.

The topographical and applied anatomy of The skull.

The topographical and applied anatomy of The accessory nasal sinuses, 318

The topographical and applied anatomy of the The frontal sinuses.

The topographical and applied anatomy of the The maxillary sinus (antrum of Highmore).

The topographical and applied anatomy of the The ethmoid sinuses.

The topographical and applied anatomy of the The sphenoid sinuses.

The topographical and applied anatomy of The mandible.

The topographical and applied anatomy of The temporomandibular joint.

The topographical and applied anatomy of The teeth.

The topographical and applied anatomy of The vertebral column.

The topographical and applied anatomy of The cervical vertebrae.

The topographical and applied anatomy of The thoracic vertebrae.

The topographical and applied anatomy of The lumbar vertebrae.

The topographical and applied anatomy of the sacrum.

The topographical and applied anatomy of The coccyx.

The topographical and applied anatomy of The intervertebral joints.



The topographical and applied anatomy of The Central Nervous System

The topographical and applied anatomy of The spinal cord.

The topographical and applied anatomy of the Age differences in the central nervous system and the spinal cord.

The topographical and applied anatomy of Descending tracts.

The topographical and applied anatomy of Ascending tracts.

The topographical and applied anatomy of The membranes of the cord (the meninges).

The topographical and applied anatomy of The brain(The cerebrum)

The topographical and applied anatomy of The medulla.

The topographical and applied anatomy of The pons.

The topographical and applied anatomy of The cerebellum.

The topographical and applied anatomy of The midbrain.

The topographical and applied anatomy of The diencephalon.

The topographical and applied anatomy of The hypothalamus.

The topographical and applied anatomy of The pituitary gland (hypophysis cerebri).

The topographical and applied anatomy of The thalamus.

The topographical and applied anatomy of The cerebral hemispheres.

The topographical and applied anatomy of The cerebral cortex.

The topographical and applied anatomy of The insula.

The topographical and applied anatomy of The connections of the cerebral cortex.

The topographical and applied anatomy of The basal ganglia.

The topographical and applied anatomy of The long ascending and descending pathways.

The topographical and applied anatomy of The membranes of the brain (the meninges).

The topographical and applied anatomy of The ventricular system and the cerebrospinal fluid circulation.

The topographical and applied anatomy of The cranial nerves.

The topographical and applied anatomy of The olfactory nerve (I).

The topographical and applied anatomy of The optic nerve (II) and the visual pathway.

The topographical and applied anatomy of The oculomotor nerve (III).

The topographical and applied anatomy of The trochlear nerve (IV).

The topographical and applied anatomy of The trigeminal nerves (V).

The topographical and applied anatomy of The abducent nerve (VI).

The topographical and applied anatomy of The facial nerve (VII).

The topographical and applied anatomy of The auditory (vestibulocochlear) nerve (VIII).

The topographical and applied anatomy of The glossopharyngeal nerve (IX).

The topographical and applied anatomy of The vagus nerve (X).

The topographical and applied anatomy of The accessory nerve (XI).

The topographical and applied anatomy of The hypoglossal nerve (XII).

The topographical and applied anatomy of The special senses.

The topographical and applied anatomy of The nose.

The topographical and applied anatomy of the The ear.

The topographical and applied anatomy of The eye and associated structures.

The topographical and applied anatomy of The autonomic nervous system.

The topographical and applied anatomy of Visceral afferents.

The topographical and applied anatomy of The sympathetic system.

The topographical and applied anatomy of The sympathetic trunk.

The topographical and applied anatomy of The parasympathetic system.

**Specific interests i.e. anatomical study, embalming, dissection etc**

My interests in Anatomical Sciences revolves around, but not confined to:

Anatomical studies.

Embalming.

Diagnostic Autopsies.

Developmental Anatomy, Embryology, Genetics & Ontogeny.

Microscopic Functional Anatomy & Histology.

Applied Anatomical Sciences.

Comparative Experimental and Pedagogic Anatomical Sciences

Clinical Demonstrations & Illustrations in Anatomical Sciences.

Computer Applications in Anatomical Sciences.

Pathological Anatomy.

Pathophysiology.

Histochemistry.

Virtual and Real Time Comparative & Human Anatomical Dissections etc

### **HISTOLOGY & EMBRYOLOGY LECTURES, TUTORIAL & PRACTICAL THEMES.**

The Typology, examples and histological Features of Epithelial cells, Cartilage, muscles tissue, bones, blood vessels, nervous tissues, neuroglial, microglia and an annotated diagrammatical representation of the basic functional and structural units of all the tissues and organ systems of the body etc.,

Topographical, functional microscopic, developmental Anatomy of the Central Nervous System (The Brain and The Spinal Cord)

#### **Methodologies Of Instruction:**

Digital photographs, Micrographic and Microscopic Slides of Light Microscopy, Electron Transmission-Microscopy, -Scanning-Transmission-Electron-Microscopy, Immunofluorescence Microscopy,

Phase Contrast Microscopy,Immunohistochemistry,molecular-pathology,mutation-analysis cytogenetics,toxicology,Imaging Techniques such as Digital Camera,X-rays,(Computer Tomographic Scans(CT Scans),Magnetic Resonance Imaging Scans (MRIs),Nuclear-Medicine-Techniques ,Spectroscopy,Spectrometry,Electrophoresis,Chromatography,of-intraoperative ,cadaveric and autopsy procedures etc.

Lectures

Tutorials

Discussion groups

Guest lectures

Projects (e.g. case studies, poster presentation, seminar presentation)

Reading of articles from relevant scientific journals

### **Methodologies Of Course Assessment:**

Evaluation will be carried out in accordance with the university policy. The lecturer will present a written course outline with specific evaluation criteria at the beginning of the semester.Evaluation will be based on the following:

<b><u>Criteria</u></b>	<b><u>Marks</u></b>
Individual Works/Tasks	10
Class Tests	10
Class Assignments	10
Final Examination	70
TOTAL	100

### **Pre-Requisite Courses:**

None

### **Co-Requisite Course(s):**

None

### **Recommended Reference Materials:**

Indexed Anatomy Textbooks, Journals and Web

## **Pathological Anatomy Course Contents and Descriptions.**

### **Course Description:**

This course deals with basic thematic aspects of General Pathology and their application in the evaluation and intervention of Specific Medical & Surgical Diseases in addition to common general systemic diseases especially the ones of utmost interest in Nursing Science.

### **Learning Outcomes/ Objectives:**

At the end of this course, the student will be able to;

[i]-Employ General Pathological Concepts in the evaluation and interventions of medical and surgical specialty focused diseases in addition to common general systemic diseases of utmost interest in Nursing Science.

[ii]-Comprehend the various subspecialties of Pathology for appropriate utmost expert referral and consultation.

[iii]-Appreciate the role of Pathology in Clinical Practice especially in Nursing Science.

[iv]-Be acquainted of the basic routine armamentariums employed in Pathology such as but not confined to Light Microscopy, Electron Transmission Microscopy, Scanning Electron Transmission Microscopy Immunofluorescence Microscopy, Phase Contrast

Microscopy, Immunohistochemistry, molecular-pathology, mutation-analysis cytogenetics, toxicology, Imaging Techniques such as Digital Camera, X-rays, (Computer Tomographic Scans (CT Scans), Magnetic Resonance Imaging Scans (MRIs ), Nuclear Medicine Techniques , Spectroscopy, Spectrometry, Electrophoresis, Chromatography intraoperative cadaveric and autopsy procedures etc.

[v]-Comprehend the indications, and pros and cons of various sampling techniques such as Surgical Pathological Fine Needle Aspiration Biopsy and Cytology, Excisional and Incisional biopsies, Trucut biopsies and Frozen Section techniques, blood and body fluid collection techniques etc.

### **Course Content:**

#### **The Scientific Discipline Of Pathology & Pathological Anatomy. (Essence)**

Definition of Pathology and its allied subspecialties.

Pathology as the scientific study that guides the cure of diseases.

Histopathology, Chemical Pathology and Microbiology/Parasitology are traditional branches of Pathology.

Histopathology includes diagnosis with tissues and autopsy (necropsy)

Chemical Pathology includes the diagnosis with the use of chemical composition of the body fluids.

Microbiology/Parasitology is the study of the implicated microbes (Bacteria, Fungi, Viruses and Parasites) in disease causation.

The Thematic Components Of General Pathology Such as:

Inflammation, Necrosis, Calcification, Amyloidosis and Degeneration.

Wound and Fracture Healing, Typology of Ulcers, Fibrogenesis.

The Physiological aspects of cellular and tissue adaptations.

The Pathological aspects of cellular and tissue adaptations.

The generic aspects of Bening and Malignant Neoplasias.

The Thematic Components of Systemic Pathology which includes:

Neuropathology, Oral Pathology, Paediatric Pathology, and Dermatopathology.

Cytopathology, Immunohistogenetics ,Immunocompatibility& Transplantation Science.

Haematopathology, Oncological Pathology&Transfusion Science.

Paediatric Pathology, Maxillofacial/Oral Pathology, Molecular Pathology and Cytogenetics.

Head/Neck Pathology, Forensic Pathology, Immunohistochemistry&Toxicology.

The Other Components of The Systemic Pathology which includes:

Nephropathology, Gastrointestinal Pathology and Hepatopathology.

Endocrine Pathology, Rheumatopathology&CardioPulmonary Pathology

Nephropathology deals with diseases of the Renal&Urological systems.

Rheumatopathology and its related Immunopathology.

Gastrointestinal Pathology and its related Hepato-Pathology through their origin.

Examples and Nomenclature of Experts in Pathology.

Inflammation. (Definitions and Cardinal signs)

Inflammation (Symptomatology and Signs)

Inflammation (Inciting Agents)

Inflammation (Essence)

The acute exudative inflammatory reaction and its formal pathogenic elements:

Inflammatory Mediators.

Pathogenesis Of The Exudation Phase Of Inflammation.

Inflammatory Phases Outcome

Examples of micro-organisms that could incite chronic and/or granulomatous inflammation.

Acute Inflammation (Essense)

Subacute Inflammation (Essense)

Chronic Inflammation (Essense)

The Consequence Of The Proliferative Phase Of Inflammation:

Exudative Inflammations

Serous Inflammation (Essense)

Differential Characteristic Of A Transudate:

Serous Exudate:

Catarrhal Inflammation

Fibrinous Inflammation (Essense)

Fibrinous Inflammation (Croupous Type).

Fibrinous Inflammation (Diphtheria Type)

Empyema (Essense).

Phlegmon (Essense)

An abscess (Essense)

Haemorrhagic Inflammation (Essense)

Putrefactive Inflammation

Courses of Acute Inflammation

## Wound Healing

First Intention (Primary) Intention Healing (Essense)

The Early lag phase of wound healing.

The proliferative phase of wound healing (Features).

The Remodelling phase of wound healing (Features).

(Second) Secondary Intention healing (Essense).

Examples of Local and regional factors undermining and discouraging wound healing includes:

Examples of General and systemic Factors delaying wound healing.

Soft Tissue Inflammations (Typology and Features).

Cysts (Essense)

Congenital Cysts (Typology and Essense)

Ulcers (Essense and Classification Schemes)

Ulcers (Essense and Features)

Ulcers (Essense and Features)

Ulcers (Natural History and Interventions)

Sinuses and Fistulas (Essense)

(Factors leading to delayed healing or non-closure) Sinuses and Fistulas includes.

Gangrene (Essense)

Gangrene (Aetiology and Typology)

Gangrene (Natural history and Essense)

Gangrene (Natural history and Interventions)

Tumours (Neoplasms or New Growths) Essense and Classification Schemes.

Tumours (Histology and Biological Behaviour)

Tumours (Structural Classification)



Tumours (Examples and Structural Classifications)

Cellular changes (Hyperplasia)

Cellular changes (Aplasia and hypoplasia)

Cellular changes (Atrophy)

Cellular changes (Hypertrophy)

Cellular changes (Dysplasia)

Cellular Changes Metaplasia.

Necrosis (Typologies)

Hypersensitivity responses (Typology and Essence)

Calcifications (Typology and Essence).

Amyloidosis (Typology and Essence).

Inherited immunodeficiency states (Typology and Essence) .

The features of T-cell deficiencies.

The features of B-cell deficiencies include.

IgA deficiency states (Pathological Essence)

Quantitation of B and T lymphocytes in the peripheral blood film for the diagnosis of immunodeficiency states.

Useful Screening Test for the evaluation of a T-cell immunity.

Adenosine deaminase (ADA) deficiency (Essence and Interventions)

DiGeorge's syndrome (Essence)

Jobs Syndrome (Essence)

Ataxia-telangiectasia (Essence)

Complement deficiencies (Pattern and Essence)

C1 esterase inhibitor deficiency (Essence and Interventions)

Discuss the pathology, complications and targets for diagnostic and therapeutic interventions for

Congestive Cardiac Failure in childhood,

Nephrotic Syndrome In childhood.

Protein-energy malnutrition (Kwashiorkor, Marasmus and Marasmic kwashiorkor)

Nephritic Syndrome.

Nephritic-Nephrotic syndrome.

Protein losing enteropathies and malabsorption syndrome.

Allergic and idiopathic oedema.

Congenital Nephrotic syndromes, congenital hepatic and biliary cirrhosis.

Renal, Jejunal, duodenal and hepatic Biopsies Renal Dialysis, Hepatic, Renal and Cardiac Transplantations.

The various Modalities of Renal Replacement Therapy.

The Nephropathy of Systemic Diseases (Diabetes Mellitus, Malignancies, and Systemic Lupus Erythematosus etc.

Hypercoagulability in Nephrotic syndrome.

Nephrotic syndrome and susceptibility to infective episodes.

The Familial Genetic Congenital Nephrotic Syndromes.

The Danes Drash Syndrome.

The divergence in the therapeutic interventions between the Acute Nephritic syndrome and the Nephrotic syndrome.

The iatrogenic complications in acute nephritic syndrome and acute nephrotic syndrome.

Applying your knowledge of the gastrointestinal tract and its adnexa (Liver, Spleen, Pancreas and the gall bladder) pathologies itemise and discuss the aetiology, pathology, complications and targets for diagnostic and therapeutic interventions of the probable causes of gastrointestinal bleeding.

For each organ of the GIT and adnexa (liver, gall bladder, spleen and the pancreas) discuss the pathology and diagnosis of the most common lesions that could cause steatorrhea, malabsorption and intestinal failure and identify possible targets for rational diagnostic and therapeutic interventions.

Characterize the shock syndrome and with notable examples discuss the typology, pathogenesis, complications and targets for diagnostic and therapeutic interventions for shock syndromes.

State, examine and discuss the Starlings Law of Fluid dynamics.

Discuss the aetiology, typology, complications, and targets for diagnostic and therapeutic interventions for:

Biventricular congestive cardiac failure.

Cor pulmonale.

Pulmonary Oedema.

Vascular aneurysms and varicosities.

Pericarditis.

Arrhythmias.

Infective Endocarditis

Acute Rheumatic Fever and Rheumatic Valvular Disease.

Discuss the pathology, complications and targets for diagnostic and therapeutic interventions for:

Idiopathic Fibrosing Alveolitis.

Bronchial Asthma.

Chronic Obstructive Pulmonary Diseases (COPD).

Pneumonconiosis.

Pulmonary Tuberculosis.

Sarcoidosis.

Bronchogenic Carcinoma.

Mesotheliomas.

Discuss the pathology and targets for diagnostic and therapeutic interventions, complications for:

Cranial and nephrogenic diabetes insipidus.

Diabetes Mellitus.

Diabetic Pre-Coma and Coma states.

The Infantile, Childhood and Juvenile Onset Diabetes Mellitus and Adult Onset Diabetes Mellitus.

Discuss the pathological causes of progressive head, neck and oral cavity lesions especially those with the three Ds (dysphagia, dyspnoea and dysphonia.) and bleeding diathesis.

Discuss the typology, pathology, mechanisms of metastatic disseminations, complications and targets for diagnostic and therapeutic interventions for the thyroid carcinomas.

Discuss the typology, pathology, complications and targets for diagnostic and therapeutic interventions for:

The inflammatory, idiopathic, cryptogenic, autoimmune and, nutritional thyroid disorders.

The Waterhouse Freidreichsens Syndrome.

The Stein-Leventhal Syndrome.

The Multiple Endocrine Neoplasia syndromes (MENS)

Application of General PATHOLOGY In Systemic Pathology of Relevance To Students of Dental Therapy.

History Taking of Relevance To Renal Pathology.

Unusual macroscopic appearances of urine and the possible aetiological factor

Basic general physical examination to guide pathological laboratory investigations:

Classification of the Symptomatology and Signs of Chronic Renal Failure (CRF):

The Symptomatology and Signs of Chronic Renal Failure (CRF) could be systemically classified as Follows:

Uremic Osteopathology:

Reproductive Difficulties and Pathology in Chronic Renal Failure:

CardioPathology OF Chronic Renal Failure:

The Symptomatology and Signs of Chronic Renal Failure(CRF) could be Systemically classified as Follows:

Haemato-pathology of chronic renal failure:

The Immunopathology of chronic renal failure:

Central nervous system (CNS) features of chronic renal failure and ureamic neuropathology .

Respiratory/Pulmonary System (CNS) Features of chronic renal failure and ureamic pulmonary pathology includes:

Gastrointestinal System Pathological (GITSystem) Features of Chronic Renal Failure:

Gastrointestinal System Pathological (GITSystem) Features of Chronic Renal Failure:

Ureamic Gastroenteropathology:

The Dermathopathology and Allied Integumentary System Pathology of Chronic Renal Failure:

The Musculo-Skeletal System Pathology of Chronic Renal Failure:

Ureamic Myopathology:

Fluid and Electrolyte Imbalances in Chronic Renal Failure:

Reproductive Difficulties and Pathology in Chronic Renal Failure:

Haemato-Pathology of Chronic Renal Failure:

The Immunopathology of Chronic Renal Failure:

Endocrinopathies and metabolic disturbances of chronic renal failures:

Renal Osteodystrophy, Secondary Hyperparathyroidism, Carbohydrate Intolerance  
Hyperuricaemia, Hypothermia , Hypertriglyceridemia , Protein-Calorie malnutrition  
Impaired growth and development , Infertility and Sexual dysfunction , Amenorrhea.

Dialysis and Transplantation related complications.

Investigations for Renal Pathologies which have three main purposes:

First, to establish a diagnosis.

Secondly to assess the complications of impaired renal function.

Thirdly to prepare the patient for probable surgery and to monitor the progress of the pathology and its response to therapy, or both

The ideal sequence of investigations in renal pathology which depends upon the clinical picture.

The widely applicable approach of investigations in renal pathology which is equally variable.

Other investigations of relevance for the Renal System:

Investigations used selectively for the renal system :

Specialized Investigations for the Renal System includes:

Renal arteriography

Specialized Investigations of the renal system (essence) and gradings

The Pivotal Role of Radionuclide Scans in Renal Pathology:

Further indications For a Radionuclide scanning include:

The Role of Diagnostic and Therapeutic Interventional Radiological Techniques in several aspects of Renal Pathology.

Renal biopsy (Essence and Indications)

Renal Biopsy (Absolute and Relative Indications)

In the evaluation of Renal Disease Tests For Other Systemic Disease May be needed and Included:

Acute Kidney Injury (Targeted Therapeutic Interventions) include.

Renal Replacement Therapy (Essence)

Acute nephritic syndrome (Essence).

Nephrotic Syndrome (Essence and Causes)

Renal vasculitis and Wegener's Granulomatosis.

Tubulo-interstitial Diseases (Essence and Definitions)

Renal Tubular Disorders-RTD (Essence and Typology)

Hypertension and the Kidney (Renal Hypertension)

Hypertension and The Kidney (Hypertensive Nephropathy)

Familial Renal Diseases (Essense and Typology)

Renal Parenchymal Infectious Diseases Spectrum.

Chronic Pyelonephritis. (Essense and Typology)

Obstructive Uropathy (Essense and Interventions)

Renal calculi (Essense and Interventions)

Renal calculi, renal calcification and nephrocalcinosis (Essense and Interventions)

History Taking and Examination of relevance to the Gastrointestinal Hepatology Systems Pathology.

Causes of Gastrointestinal Bleeding include:

Further Physical and Systemic Examination Findings in Hepatobiliary, Pancreatic and Gastrointestinal Systems Pathology:

Investigations of Relevance To The Gastrointestinal System and Hepatology system Pathology.

The Contributions of Nuclear Medicine Techniques To The Evaluation of Hepatobiliary, Pancreatic and Gastrointestinal Pathology.

The Contributions of Histopathological Techniques To The Evaluation of Hepatobiliary, Pancreatic and Gastrointestinal Pathology.

Historical Notes of Relevance To The Cardiovascular System Pathology.

Biventricular Congestive Cardiac Failure.

Biventricular Congestive Cardiac Failure (Essense and Features)

Biventricular Congestive Cardiac Failure (Essense and Features) & Medications

Heart Failure (Classification Schemes)

Biventricular Congestive Cardiac Failure (Essense and Typology)

Ultrasonography of The Heart.

Imaging in Biventricular Congestive Cardiac Failure.

Angiography In Heart Failure

Algorithms for The Diagnosis of Congestive Cardiac Failure.

Staging of Biventricular Congestive Cardiac Failure

The evaluation of Heart Failure:

The Prevention of Congestive Cardiac Failure:

Congestive Cardiac Failure (Essense and Interventions)

Surgical therapies For Heart Failure.

Palliative care:

Prognosis:

Heart Failure (Essense, Interventions and Prognosis)

Research Directions for Congestive Cardiac Failure.

Paradoxical Embolism. (Venous to arterial) Essense.

Cardiac Biomarkers.

Complications of Myocardial infarction

Cardiomyopathies could be classified using different criteria•

Rheumatic Heart Fever (RHF)-Essense and Pathology.

Modified Duckett Jones (Major Criteria):

Modified Duckett Jones for The diagnosis of Rheumatic Fever (Minor criteria)

Aetiological Factors For Pericarditis include

Pericarditis (Typology and Complications)

Pathophysiology of Aneurysms:

Aneurysms (Essense, Typology and Interventions)

Lymphoedema (Essense and Typology)

Arrhythmias (Essense, Typology and Interventions)

Heart blocks.(Definitions and Essense)

Pulmonary arterial hypertension (PAH)



Varicose Veins Complications

Pathophysiology of asthma

Adult respiratory distress Syndrome (ARDS):

Common Causes of ARDS include but not confined to :

Common Endocrinopathies .

The Pathological anatomy and applied pathology of The Central Nervous System

The Pathological anatomy and applied pathology of The spinal cord.

The Pathological anatomy and applied pathology of the Age differences in the central nervous system and the spinal cord.

The Pathological anatomy and applied pathology of the Descending tracts.

The Pathological anatomy and applied pathology of the Ascending tracts.

The Pathological anatomy and applied pathology of The membranes of the cord (the meninges).

The Pathological anatomy and applied pathology of The brain(The cerebrum)

The Pathological anatomy and applied pathology of The medulla Oblongata.

The Pathological anatomy and applied pathology of The pons.

The Pathological anatomy and applied pathology of The cerebellum.

The Pathological anatomy and applied pathology of The midbrain.

The Pathological anatomy and applied pathology of The diencephalon.

The Pathological anatomy and applied pathology of The hypothalamus.

The Pathological anatomy and applied pathology of The pituitary gland (hypophysis cerebri).

The Pathological anatomy and applied pathology of The thalamus.

The Pathological anatomy and applied pathology of The cerebral hemispheres.

The Pathological anatomy and applied pathology of The cerebral cortex.

The Pathological anatomy and applied pathology of The insula.

The Pathological anatomy and applied pathology of The connections of the cerebral cortex.

The Pathological anatomy and applied pathology of The basal ganglia.

The Pathological anatomy and applied pathology of The long ascending and descending pathways.

The Pathological anatomy and applied pathology of The membranes of the brain (the meninges).

The Pathological anatomy and applied pathology of The ventricular system and the cerebrospinal fluid circulation.

The Pathological anatomy and applied pathology of The cranial nerves.

The Pathological anatomy and applied pathology of The olfactory nerve (I).

The Pathological anatomy and applied pathology of The optic nerve (II) and the visual pathway.

The Pathological anatomy and applied pathology of The oculomotor nerve (III).

The Pathological anatomy and applied pathology of The trochlear nerve (IV).

The Pathological anatomy and applied pathology of The trigeminal nerves (V).

The Pathological anatomy and applied pathology of The abducent nerve (VI).

The Pathological anatomy and applied pathology of The facial nerve (VII).

The Pathological anatomy and applied pathology of The auditory (vestibulocochlear) nerve (VIII).

The Pathological anatomy and applied pathology of The glossopharyngeal nerve (IX).

The Pathological anatomy and applied pathology of The vagus nerve (X).

The Pathological anatomy and applied pathology of The accessory nerve (XI).

The Pathological anatomy and applied pathology of The hypoglossal nerve (XII).

The Pathological anatomy and applied pathology of The special senses.

The Pathological anatomy and applied pathology of The nose.

The Pathological anatomy and applied pathology of The ear.

The Pathological anatomy and applied pathology of The eye and associated structures.

The Pathological anatomy and applied pathology of The autonomic nervous system.

The Pathological anatomy and applied pathology of Visceral afferents.

The Pathological anatomy and applied pathology of The sympathetic system.

The Pathological anatomy and applied pathology of The sympathetic trunk.

The Pathological anatomy and applied pathology of The parasympathetic system.

### **Methodologies Of Instruction:**

Light Microscopy, Electron Transmission Microscopy, Scanning Electron Transmission Microscopy Immunofluorescence Microscopy, Phase Contrast Microscopy, Immunohistochemistry, molecular-pathology, mutation-analysis cytogenetics, toxicology Digital Camera, X-rays, (Computer Tomographic Scans (CT Scans), Magnetic-Resonance-Imaging-Scans (MRIs)), Nuclear Medicine Techniques, Spectroscopy, Spectrometry, Electrophoresis, Chromatography-etc. Microscopic and Micrographic Slides Of intraoperative, cadaveric and autopsy procedures.

Lectures

Tutorials

Discussion groups

Guest lectures

Projects (e.g. case studies, poster presentation, seminar presentation)

Reading of articles from relevant scientific journals and Text Books.

### **Methodologies Of Course Assessment:**

Evaluation will be carried out in accordance with the university policy. The lecturer will present a written course outline with specific evaluation criteria at the beginning of the semester. Evaluation will be based on the following:

<b><u>Criteria</u></b>	<b><u>Marks</u></b>
Individual Works/Tasks	10
Class Tests	10
Class Assignments	10
Final Examination	70
TOTAL	100

### **Pre-Requisite Courses:**

None

### **Co-Requisite Course(s):**

None

**Recommended Reference Materials:**

Indexed Pathology Textbooks, Journals and Web

**Please See Portfolio of Academic, Clinical and Research Training and Publications List FOR OTHER DETAILS..**

Endorsed by

*GENOMY, EKWE LU*

Dr. Emmanuel Udemezue Onyekwelu.MD.,FRSA.,FRSB.,FRSPH.,FRSH.