The Evolution of Health Care Systems in Nigeria: Which Way Forward in the Twenty-First Century

Ajovi Scott-Emuakpor

Evolution is “change” and one of the most consistent phenomena of life is “change”. Change is to alter, to vary, to substitute, and to mutate. The complexity of life itself is brought about by change.

Our individuality is fashioned by change. In the process of gamete formation, the genes within the germ cell undergo a complex rearrangement referred to as “meiosis”. During this event, the chromatids of homologous chromosomes participate in an almost ritualistic exchange of genetic materials called “crossing-over” or “recombination”. At the end of this process, paternal and maternal genes are recombined uniquely to produce an arrangement of genes never before encountered. This ultimate change produces a unique individual generation after generation.

Whether you are an “evolutionist” or a “creationist”, change constitutes the main element of the process in which you believe. The entire theory of evolution glorifies “change”. Evolution derives its substance from the theory of “survival of the fittest”. The fittest are fittest because they have undergone change called “mutation”, which confers on them reproductive superiority in a constantly changing environment. Therefore, the “fittest” have a “selective advantage” to deal with a changed environment.

The creationist should remember the story of creation very well. It consisted of a series of changes. As the narrative goes, “And the earth was without form, and void; and darkness was upon the face of the waters. And God said, “Let there be light: and there was light” (see Genesis 1:2-3). Light was the very first change God brought to bear in the process of His creation. The story of God's creation becomes even more fascinating as you read the rest of the book of Genesis. It shows how God changed the world and the beauty therein painstakingly. It also shows the changes that were introduced into our very existence when the first Humans disobeyed the instructions of God.

“Change” therefore is life itself.

The profession of medicine has been quite active in the arena of “change”. Health care systems undergo changes and,...

From: Department of Pediatrics & Human Development, Department of Pediatric Hematology/Oncology Michigan State University East Lansing, MI, USA.

Correspondence: Prof. A. Scott-Emuakpor
unknown. The boundary between what we know and what we
do not know is very thin. The changes in life have come from
our insatiable urge to explore this boundary to expose the
unknown. This is the greatness of this creation of God, called
HUMAN.

With our unenviable ranking as the 187th nation in the
world in terms of the health sector, the theme for this Golden
Jubilee celebration, “Health Care Development in the last 50
Years” is most fitting. Therefore, I am going to review the
evolution of healthcare systems in our beloved country,
NIGERIA. This review will touch upon the changes that have
occurred and I will leave you to determine whether these changes
have meant progress, stagnation or retrogression.

Health Development at Various Periods

Nigeria is made up of at least 250 linguistic groups (which
some describe as ethnic groups), of which 3 are major groups
comprising over 60% of the total population. Although all of
these groups share common major macro-culture and macro-
traditions, each evolved its own micro-culture and micro-
traditions in response to prevailing environmental circumstances.
Traditional medicine and healing constituted part of the micro-
cultural evolution.

In pre-explorers and pre-western trader's Nigeria, traditional
medicine was the system of health care delivery. Traditional
healing and medical practices included herbalists, divine healers,
soothsayers, midwives, spiritualists, bone-setters, mental health
therapists and surgeons. In spite of more than 150 years of
introduction of Western style medicine to Nigeria, traditional
healing and medical practices remain a viable part of the complex
health care system in Nigeria today. In 1988, a casual survey in
Benin City revealed that for every sign-post that indicated a
Western-style clinic or office, there were 3 that indicated a
traditional doctor. Although this traditional system of health
evolved separately in different micro-cultures, there is a great
deal of philosophical and conceptual similarities. The origin of
diseases in Africa was simplistic. It is either an enemy had cast
a spell on you or you are being punished by divine powers
for your sins. Although the Arabs have had the distinction of early-
organized medical services, there is no recorded evidence of the
introduction of such services to Sub-Saharan Nigeria during
trade interactions of the fifteenth century1. The same thing is
ture of the early Portuguese and English traders in their
interactions with the Delta/Riverine areas of Nigeria during the
later part of the fifteenth century.

The first record of modern medical services in Nigeria was
during the various European expeditions in the early-to mid-
nineteenth century. The earlier explorations of Mungo Park and
Richard Lander were seriously hampered by disease. In
the expedition of 1854, Dr. Baikie introduced the use of quinine,
which greatly decreased mortality and morbidity among the
expeditioners. It is still a subject of considerable debate whether
the use of quinine by Dr. Baikie was his original discovery or
whether he borrowed the idea from traditional herbalists with
whom he had interacted in the course of his expeditions.
Whatever is the true situation, the use of quinine both as
prophylaxis against and as therapy for malaria fever, expanded
exploration and trade.

The Emergence of Organized Health Care Services

It would seem from available accounts that the earliest
form of Western-style health care in Nigeria was provided by
doctors brought by explorers and traders to cater for their own
well being.2 The services were not available to the indigenes. It
was the church missionaries that first established health care
services for the people.1 In this regard, tribute must be paid to
the Roman Catholic mission, the Church Missionary Society
(Anglican) and the American Baptist Mission. It is stated that
the first health care facility in the county was a dispensary
opened in 1880 by the Church Missionary Society in Obosi,
followed by others in Onitsha and Ibadan in 1886. However, the
first hospital in Nigeria was the Sacred Heart Hospital in
Abeokuta, built by the Roman Catholic Mission in 1885.3

There are several anecdotal reports of practices within
these missionary health care facilities to suggest that they were
primarily used as tools for winning converts and expanding
their followship. Consequently, these facilities were
competitive rather than complementary. In spite of this fact,
they were of such high quality that, by Independence in 1960,
Mission-owned hospitals were more than Government-owned
hospitals (118:101). This high quality is also evidenced by the
fact that the Seventh Day Adventist Hospital in Ilesha as well
as the Wesley Guild Hospital in Ile-Ife became the nucleus of
the teaching Hospital complex of a major university in Nigeria.
Even today in Nigeria, the Baptist Hospitals in Ogbomosho and
Eku function as referral centers in the health care delivery matrix.

Because of the evangelical functions of these health care
facilities, it was left for the government to organize and develop
policies for general health care. It is well known that towards
the end of 19th century, European powers were at war with each
other for ownership of the vast rich land of Africa. They
established frontiers needed to be secure and so there was a
powerful British military presence in Nigeria. For the military,
which was located in Lokoja, the British for therefore established
medical services there. Under the Governor, Lord Lugard, Lokoja
was the military headquarters in 1900. Aside from military health
services, civilian services were also established and it is known
that the first government hospital for civilians, the St. Margaret's
Hospital, was built in Calabar in 1889.4

At the time World War I (1914-1918) was ending, present
day Nigeria was being born by the amalgamation of the Northern
and Southern regions. This war produced a lot of military
activities in Nigeria, leading to the establishment of several
military health care facilities, some of which were left to function
as civilian hospitals after the war. With time, several government-
owned health care facilities were established, ranging from rural
health centers to general hospitals.

The Emergence of Centralized Control of Health Care Services

At the turn of the century, medical services, as is the case
with some other services, in Gambia, Sierra Leone, Ghana (then
Gold Coast) and Nigeria were merged and controlled by the
Colonial Office in London. This was the first centralization of
control of health services in West Africa.2 The Colonial Office
After independence in 1960, the same basic health care policy was pursued.

By the time the Third National Development Plan was produced in 1975, more than 20 years after the report mentioned above, not much had been done to achieve the goals of the Nationwide Health Care Services policy. This plan, which was described by General Yakubu Gowon, the then Head of the Military Government, as “A Monument to Progress”, stated, “Development trends in the health sector have not been marked by any spectacular achievement during the past decade”. This development plan appeared to have focused attention on trying to improve the numerical strength of existing facilities rather than evolving a clear health care policy.

The New Health Hierarchy

The Fourth National Development plan (1981-1985) addressed the issue of preventive health services for the first time. The policy statement contained in this plan called for the implementation of the Basic Health Services Scheme (BHSS), which provides for the establishment of three levels of health care facilities; namely 1) Comprehensive Health Centers (CHC) to serve communities of more than 20,000 people; 2) Primary Health Centers (PHC) to serve communities of 5000 to 20,000 persons; and 3) Health Clinics (HC) to serve 2000 to 5000 persons. Thus, a CHC would have at least 1 PHC in its catchment area (ideally 4) and a PHC would have at least 1 HC in its catchment area (ideally 2). These institutions were to be built and operated by state and local governments with financial aid from the federal government. By this policy, the provision of health services would be the joint responsibility of the federal, state and local governments. In its outlook, this policy is not different from the one published in 1954 by the Eastern Nigerian Government previously mentioned.

Nigeria is currently made up of 36 states and over 500 local government areas. Each local government area (LGA) is made up of between 150,000 to 250,000 people. By the scheme proposed in the Fourth National Development plan, each LGA would have a minimum of 7 PHCs and 30 HCs with at least one CHC at the apex of the health care services. The larger LGAs would each have, at least 12 PHCs and 50 HCs feeding into one or more CHCs. Nigeria has not come close to achieving this lofty objective. As a matter of fact, services that existed were deteriorating hopelessly, leading to various industrial actions by all classes of doctors in the 80’s. This has continued even today.

On the last day of 1983, a new Military Government came into being in Nigeria and one of the reasons it gave for the Military intervention was the state of health services, declaring “our teaching hospitals have been reduced to mere consulting clinics.” One of the government’s first efforts was to revise the Fourth National Development Plan. The health strategy under this revised plan gradually shifted emphasis to primary health care. Although this has always been the ultimate goal of the plan, the political will did not seem to exist for its implementation. The adoption of the WHO target of Health for All by the Year 2000 by the federal government was marked by shifts in emphasis and structural changes in health care administration.

At the federal level, the Directorate of National Health
planning had the function of coordination and implementation of the national health policy. It also had the function of developing plans for national health. At the state level, were state health advisory councils whose function it was to give general advice to the Commissioner of Health in the performance of his functions. At the local government level, the State Ministry of Local Government in consultation with the State Ministry of Health established Local Government Health Committees covering their area of authority for the purposes of formulating policies for providing health services to the communities. At the community level, several small communities had evolved small community primary health care services with active community participation.

In more recent Nigeria, this lofty goal has not been achieved. The capacities of the facilities that emerged from previous efforts have been stretched and infrastructure broken beyond repair. Primary health care services now exist only in name. The common man has reverted to the herbalist and traditional healers for care because of access and affordability issues. The elites have perfected medical tourism to India, Singapore, South Africa and even Ghana. This is in the face of a rapidly changing disease patterns in which infectious diseases have been replaced by behavioral, environmental and poverty-related diseases.

The record shows that in 1979, there were 562 General Hospitals, 16 Maternity and Pediatric Hospitals, 11 Armed Forces Hospitals, 6 Teaching Hospitals and 3 prison Hospitals and they all accounted for 44,600 hospital beds. In addition to these, there were estimated 600 Health Centers, 2740 General clinics, 930 Maternity Homes and 1240 Maternity Health Centers. By 1985, 13% of the hospital beds were provided by 84 Federal Institutions while 47% of the hospital beds were provided by 3,023 hospitals owned by the State Governments. The rest of the beds were provided by 6331 health facilities owned by Local governments (11% of the beds) and 1,436 private hospitals (14% of the beds).

Health Manpower Training and Development

In Tables 1 and 2, I have tried to capture the health manpower situation in Nigeria since Independence in 1960.

The need for manpower training and for the development of indigenous skills in health care services was recognized quite early, first by the missionaries and later by the colonial government. The main reason for this was the fact that the missionary physicians, as is true for other missionaries, had a high rate of morbidity and mortality among their ranks resulting from the inclement weather and previously unfamiliar tropical diseases. Since health care services had become a major part of evangelism, it became obvious that native Africans needed to be trained in all aspects of evangelical work, including health care delivery, in order to expand the missionary activities to the hinterland. The nearest place where this training was available was Britain. Several Africans were thus sponsored by missionary agencies to study in Britain. The first was John Macaulay Wilson, a Sierra Leonian, who became the first native African to become a physician. The first two Nigerian physicians were James Africanus Beal-Horton and William Broughton Davis, and they were similarly trained in Britain.\(^1\)\(^4\)

World War I brought the need for indigenous trained health care personnel home to the Colonial Government, which had hitherto mostly excluded Nigerian physicians from government medical services. The war led to the deployment of physicians and other health care workers in the army and there was an acute shortage of health personnel. Also, the influenza and plague epidemics had brought about the need for more hands. This led to the establishment in 1939 of the first medical school in Nigeria, the Yaba Medical College. At first, it trained medical assistants, but was later upgraded to train assistant medical officers. By special arrangement between the Colonial Office and The Royal Colleges of Surgeons and Physicians of Great Britain, most of the assistant medical officers were granted Licentiate Diplomas, after a short exposure in Britain.\(^3\)

This made them full doctors. Sixty-two attended the Yaba Medical College, 56 graduated and 6 transferred to complete their training in Ibadan, when it was established in 1948. Of the 56 that graduated, 32 went to Britain under the arrangement with the Royal Colleges and the 24 left were upgraded to full physicians by the Nigerian government. Because the Yaba College trained only half doctors, it became quite unpopular with the emergence of political activism among Nigerians. It eventually disappeared with the establishment of the University College, Ibadan. Although the Yaba College was closed due to its unpopularity, another school for training incomplete doctors evolved in Kano (Northern Nigeria) in 1955. This was also short-lived and its graduates were mostly converted to full-fledged doctors by a political declaration.

<table>
<thead>
<tr>
<th>Staff Category</th>
<th>Numbers</th>
<th>Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physicians</td>
<td>39,210</td>
<td>30</td>
</tr>
<tr>
<td>Dentists</td>
<td>2,773</td>
<td>2</td>
</tr>
<tr>
<td>Nurses</td>
<td>124,626</td>
<td>100</td>
</tr>
<tr>
<td>Midwives</td>
<td>88,796</td>
<td>68</td>
</tr>
<tr>
<td>Pharmacists</td>
<td>12,072</td>
<td>11</td>
</tr>
<tr>
<td>Physiotherapists</td>
<td>796</td>
<td>0.62</td>
</tr>
<tr>
<td>Occupational Therapists</td>
<td>210</td>
<td>0.16</td>
</tr>
<tr>
<td>Medical Lab Technicians</td>
<td>3,059</td>
<td>3</td>
</tr>
<tr>
<td>Radiographers</td>
<td>519</td>
<td>0.42</td>
</tr>
<tr>
<td>Primary Care Workers</td>
<td>117,568</td>
<td>93</td>
</tr>
</tbody>
</table>

THE EVOLUTION OF HEALTH CARE SYSTEMS IN NIGERIA

<table>
<thead>
<tr>
<th>Table 1: Health Manpower</th>
<th>1960</th>
<th>1962</th>
<th>1972</th>
<th>1990</th>
<th>2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physicians</td>
<td>1,079</td>
<td>1,352</td>
<td>3,112</td>
<td>16,000</td>
<td>22,000</td>
</tr>
<tr>
<td>Dentists</td>
<td>49</td>
<td>58</td>
<td>124</td>
<td>4,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Nurses</td>
<td>5,938</td>
<td>7,107</td>
<td>15,529</td>
<td>50,000</td>
<td>62,000</td>
</tr>
<tr>
<td>Midwives</td>
<td>2,040</td>
<td>6,911</td>
<td>16,034</td>
<td>45,000</td>
<td>55,000</td>
</tr>
<tr>
<td>Pharmacists</td>
<td>542</td>
<td>701</td>
<td>1,927</td>
<td>4,000</td>
<td>11,000</td>
</tr>
<tr>
<td>Physiotherapists</td>
<td>NA</td>
<td>2</td>
<td>14</td>
<td>1,100</td>
<td>7,800</td>
</tr>
<tr>
<td>Occupational Therapists</td>
<td>NA</td>
<td>NA</td>
<td>11</td>
<td>180</td>
<td>250</td>
</tr>
<tr>
<td>Medical Lab Technicians</td>
<td>30</td>
<td>48</td>
<td>106</td>
<td>1,214</td>
<td>8,200</td>
</tr>
<tr>
<td>Radiographers (x-ray technicians)</td>
<td>30</td>
<td>39</td>
<td>96</td>
<td>900</td>
<td>4,500</td>
</tr>
<tr>
<td>Primary Care Workers</td>
<td>NA</td>
<td>NA</td>
<td>6,000</td>
<td>24,000</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 2: Health Manpower 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Category</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>Physicians</td>
</tr>
<tr>
<td>Dentists</td>
</tr>
<tr>
<td>Nurses</td>
</tr>
<tr>
<td>Midwives</td>
</tr>
<tr>
<td>Pharmacists</td>
</tr>
<tr>
<td>Physiotherapists</td>
</tr>
<tr>
<td>Occupational Therapists</td>
</tr>
<tr>
<td>Medical Lab Technicians</td>
</tr>
<tr>
<td>Radiographers</td>
</tr>
<tr>
<td>Primary Care Workers</td>
</tr>
</tbody>
</table>
Medical training in Nigeria's premier university, University College, Ibadan, was fashioned after the British system as would be expected. The pre-clinical work was done in Ibadan, the clinical work was done in Teaching Hospitals in England, and the degrees awarded were London University degrees. By 1957, all aspects of the training were done in Ibadan, but the degrees were still that of London University, whose officials conducted the examinations in Ibadan. It was not until 1967 (clearly 7 years after independence) that the University of Ibadan granted its own degrees. By this time, the University of Lagos had started awarding its own medical degrees. This was followed in quick succession by Ahmadu Bello University, University of Ife (now Obafemi Awolowo University), and the University of Benin. Other institutions followed, including the University of Nigeria, the University of Ilorin, the University of Calabar, the University of Port Harcourt, the University of Maiduguri, the University of Jos, and the University of Sokoto.

Today there are 26 medical schools in Nigeria, compared to 1 in 1960, 6 in 1965, 6 in 1975, 11 in 1984 and 18 in 2005, all providing medical education with curriculum borrowed from each other. Even our premier university and our revered seat of medical excellence, the University of Ibadan, College of Medicine, has not changed its curriculum since its inception. It has trained doctors in the same old way inherited from the British, as if the society is static. Even British Medical Education has changed many times over, yet ours remain the same. Fortunately, a change in medical curriculum is on its way in Ibadan and, to the best of my knowledge, will revolutionize the way we train our doctors.

Based on data from the Nigerian Medical and Dental Council, Nigerian medical schools graduate between 2000 and 3000 doctors annually. Established positions for doing the compulsory house-jobs (internship) range between 1000 and 1500, depending on available funds. What then happens to the 1500 to 1500 that cannot get internship positions? An estimated 1000 to 1500 graduate each year, and of these, only 600 are able to get full-time positions in the public sector. The remaining doctors are forced to seek work in the private sector, where salaries are much lower.

The training of other health care professionals followed the same developmental process as that described for doctors with the early ones being trained in England, until the development of local schools. The training of nurses in Nigeria started after the establishment of the Nursing Council of Nigeria. The preliminary Training School (PTS) for nurses, which was based in Lagos, was transferred to Ibadan (capital of the West) as one of 3 such schools in the country. The others were in Kano (in the North) and Aba (in the East). Whereas the 2 schools in the South (Ibadan and Aba) had only a 6-month program, that in North (Kano) had 2 courses, one of them admitted students with lesser qualifications and the program lasted for 1 year, while the other program of 6 months duration was for students with a higher entry qualification. By 1954, 23 (all men) graduated from the Kano School, 40 (16 women and 24 men) graduated from the Aba School and 71 (42 women and 29 men) graduated from the Ibadan School.3 As was the case with doctors, there was displeasure expressed over the incomplete training of nurses who received local training. This subsequently led to the establishment of 3-year nursing schools at designated government hospitals, 7 in the North, 6 in the East and 8 in the West. In addition, the Nursing Council granted recognition to 17 missionary built programs for training of full-fledged nurses and PTS nurses. By 1955 there were 100 female student nurses at the University College Hospital in Ibadan receiving British-type State registered Nurse’s (SRN) training.

There were 2 cadres of midwifery schools in Nigeria. One trained Grade I Midwives and the other trained Grade II Midwives, the latter being a lower standard of entry qualifications and training. Grade I Midwives were trained in designated government centers and by 1954, 12 women had graduated from the Northern School in Kaduna, 23 from the Eastern School in Aba, 10 women from the other Eastern school in Calabar, and 20 women from both Massey Street, Lagos and Ade-Oyo Hospital, Ibadan in the West. Grade II midwives were trained in missionary hospitals or Native Authority (equivalent of present day local government area) facilities. These individuals worked mostly in rural areas and in 1954, 5 were trained in the North, 21 in the East and 103 in the West.

Public Health Attendants (known as Sanitary Inspectors) were trained in 4 schools of hygiene across the country. One school, operated by the Lagos Town Council Public Health Department, graduated 4 by 1954, while those operated by the government in Kano (North), Aba (East) and Ibadan (West) graduated a total of 128.3

The only schools for training Dispensary Attendants were in the North (Kano and Zaria). They became the centers for training Dispensary Attendants for the whole country, until the establishment of a similar training facility at the University College Hospital, Ibadan in 1957. The Field Unit School at Makurdi (in the Benue River in the North) began training of Sleeping Sickness Assistants in 1953 and later trained Medical Field Unit Assistants for the entire country. At the Oji River Settlement in the East, a 6-month course was established for training Leprosy Inspectors and Attendants. By 1954, 4 Leprosy Inspectors and 21 Attendants had been trained.3 Pharmacists were trained in the defunct Yaba Medical College site, and by 1954, 31 had graduated. The dispensers, trained at Zaria and Kano, were subsequently licensed to practice in Northern Nigeria only.

The only places that trained laboratory technicians were the Lagos Hospital and Kano Hospital and by 1954, 29 had graduate from Lagos and 2 from Kano. At the same time, 3 Dental Technical Assistants were trained in Lagos Hospital. The only school for Radiography was in Lagos and it trained x-ray assistants for the whole country. By 1957, a total of 10 had graduated from this school (5 from the West, 3 from the East and 2 from the North). The Orthopedic Hospital in Igbobi, Lagos, trained 6 Assistant Physiotherapists by 1957. This represented the training situation for personnel of the various aspects of health care services just before and around independence in 1960. After independence, the improvements were modest for the next 10 years, when judged against the background of population growth. For example, whereas there were 1354 physicians and 58 dentists in 1962, the corresponding figures for physicians and dentists in 1972 were 3112 and 124 respectively. However, the population growth from 54,000,000 in 1962 to 68,000,000 in 1972 makes the numerical improvement less meaningful.

The situation with nursing personnel was about the same.
There were 7,107 registered nurses (RNs) and 6,917 registered midwives (RMs) in 1962, but by the 1972 figure had increased to 15,529 RNs and 16,034 RMs, thus reducing by one-half the nurse/population ratio within 10 years. The training of all other cadres of health care personnel followed the same process of development. It is worth mentioning that before independence, we actually had more manpower training programs than we had at independence.

Nigerian Medical and Dental Council's recent data in 2002, lists about 22,000 physicians and about 1200 Dentists in Nigeria. This includes all those registered with the council. It includes all of the physicians in the Diaspora and those that have probably died. At the same time, the population of Nigeria has soared to about 130 Million. The Nursing Council of Nigerian data in 2002 named 49 recognized facilities for the training of nurses and midwives. The number of Nurses and Midwives are estimated as 62,000 for RN's (although 98,000 are listed in the Registry) and about 51,000 for RM's (although 75,000 are listed in the Registry). Even now an individual may train in one or the other. Most midwifery schools now admit only graduates of nursing schools. Once again, the training curriculum has not changed to reflect the realities of our society and advances in medical care. Today all of the teaching hospitals are now undertaking specialized nursing training, such as ophthalmic nursing, theater nursing, etc.

Public health attendants (Sanitary inspectors) have been eliminated completely. I am informed that some states are contemplating reinstituting them.

Dispensary attendants no longer exist. Sleeping sickness, although still a major problem in parts of our country, no specially trained attendants exist anymore. In our country's books, leprosy has been eradicated; but, is that really true?

Health Care During the Struggle for Independence

As already stated, traditional medical practices are very much a part of the health care delivery system in Nigeria today as they were during and before the struggle for independence. Health care during the period of independence was oriented primarily to curative rather than preventive care. For example, as a result of the poor attempt to establish preventive programs, measles remained the greatest killer of children. By this time, the WHO had proven beyond reasonable doubt that proper execution of preventive programs can eradicate deadly diseases, and indeed, small pox was almost non-existent in Nigeria at this time.

In terms of access to health care services, it is estimated that in 1960 only 10-15% of the Nigerian population was covered by any form of modern health care services. Also, services were concentrated in the urban areas to the detriment of the rural areas. Consequently, whereas more than 50% of the urban population had access to health care, less than 5% of the rural population had comparable access. This pattern becomes more striking if one realizes that about 90% of the population was rural in 1960. The situation has not changed very much today, except that urban migration has increased, further tasking the existing urban facilities, making them ineffective and inadequate. Also, today there are more quacks parading as doctors all over the country with impunity, thanks to poorly regulated and under funded system. We have no wherewithal to monitor and to weed them out of the system.

The Financing of Health Services

The Federal Ministry of Health is the planning and coordinating body for health services issues. The state governments through their Ministries of Health implement national programs and run state health institutions while the local governments ensure the delivery of health care to the masses. The federal government “dictates the tune”, and provides the bulk of the money for paying the “piper.” Over 90% of the money for health care services come directly or indirectly from the federal government, which has allowed the states some independence and freedom to spend the money as they see fit. The states, in the same way, allow the local governments some freedom in the way they spend the money.

Because the federal government provides over 90% of the money for health, a look at the federal allocation to health will give a clear indication of the position that health care occupies in the list of the government's priorities. The opening sentence of the Chapter on Health, in the Third National Development Plan, states, “Development trends in the health sector have not been marked by any spectacular achievement during the past decade.” In the same way, the financial allocation to health did not show any remarkable improvement in the decade that followed independence. During the Third National Development Plan of April 1, 1975 to March 31, 1980, N689 million naira was planned to be spent on health care out of an anticipated total expenditure of N434,000 million. This comes to only 1.6% of the total proposed expenditure for health. There are, unfortunately, no statistics to show the actual amount spent. Because of the instability of the Naira, the picture can be made clearer by converting to the dollar. In 1975, the Naira was almost $2.00 and the population of Nigeria was estimated as 75 Million people. Per capita expenditure on health therefore was about $18.40 in 1975. For the same period of time, defense was allocated 5.1% of the total proposed expenditure.

The Fourth National Development Plan of January 1, 1981 to December 31, 1985 was a lot kinder to health, with an allocation of N3066.6 million out of a proposed N69,686.3 Million, which comes to 4.4%. If we accept that 3066.6 Million Naira was spent on health in that plan, it will be equivalent to $5519.88 Million (exchange rate in 1981 was one Naira = $1.80). With a population of almost 90 Million at that time, the health expenditure per capita would have been $61.3. However, the downward turn in Nigeria's economy began during this period, leading to major cuts in budgetary allocations. There is little doubt that the actual amount spent on health was not close to the 4.4% of the total budget. In fact, in terms of percentage of the total budget, the first full budget of the Babangida government that came into power on August 27, 1985 was very unkind to health. What makes it even more outrageous is the fact that the poor state of health was cited as one of the justifications for overthrowing the previous government. In that year, health was allocated 2.7% of the total budget, while defense received 7.8% of the budget. This was also the time when Babangida orchestrated a rapid
devaluation of the Naira that has continued a downward spiral since that time. It is very difficult to find a rationale for such poor allocation to health. It is almost impossible now to ascertain budgetary allocations to health in the Nigerian system. The States have been given more freedom to pursue health care policies and to allocate monies as they see fit.

In the 2004 federal budget 99.8 billion Naira (N) was allocated for all government services. The Federal Ministry of Health got 26.4 billion Naira, while Defense got 10.6 billion Naira. The Ministry of Health, therefore, got nearly 26% of the total budget for health. Does this translate to money available for the well-being of the people? A critical look at the budgetary allocations will prove otherwise. The budget deliberately mixed capital expenditure with recurrent expenditure. For example, as much as 7 billion Naira was voted to rehabilitate 8 teaching hospitals in the budget. In spite of this shortcoming the budget, on the surface, appears to be very kind to health. However, given the fact that the Naira at that time was $0.007 and, given the fact that the population was estimated then at about 130 Million, the per capita expenditure was only about $1.42, if all of the money allocated was actually released. This is abysmal to say the least. Table 3 is my attempt to give a graphic picture of health financing situation.

Contributions From International Organizations

Several international organizations have played phenomenal roles in the development and maintenance of health services in Nigeria. Unfortunately most of these contributions pass through government (mostly federal government), which has kept very little record of the impact these contributions have made. Also, records of the exact cash amount of these contributions are sketchy, partly because a lot of the contributions are in kind, partly because of poor government record-keeping and partly because of the absence of reliable data/statistics for doing so. In attempting to measure these indicators, the first problem one encounters is the absence of reliable data/statistics for doing so. Consequently, the figures published are as varied as the authors. My efforts in obtaining figures have come from a combination of several published reports and my own experience. These organizations include the World Bank, United States Agency for International Development (USAID), WHO, UNICEF, and British Technical Assistance (BTA).

In a collaborative effort between the Nigerian government, USAID, and WHO, a very successful program was launched against smallpox and measles in 1967 and 1968. Whereas USAID financed the cost of technical immunization expense, the Nigerian government and WHO provided medical personnel and local

### Present Health Situation

There are several health indicators used in assessing the health status of a nation. When these indicators are measured in African populations, it becomes clear how poorly Africa is doing. In attempting to measure these indicators, the first problem one encounters is the absence of reliable data/statistics for doing so. Consequently, the figures published are as varied as the authors. My efforts in obtaining figures have come from a combination of several published reports and my own experience. The values of the major indicators are shown in Tables 4 and 5. These are discussed below:

**Perinatal mortality:** This is the number of stillbirths plus deaths within the first week of life out of a total of 1000 births (dead or alive). The perinatal mortality rate in all of Africa south of the Sahara, excluding South Africa, is generally thought to be 100-110 per 1000. In Nigeria, the figure is not different. At the

<table>
<thead>
<tr>
<th>Table 3: Allocations to Health</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1975</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Health</td>
</tr>
<tr>
<td>Defense</td>
</tr>
<tr>
<td>Others</td>
</tr>
<tr>
<td>TOTAL</td>
</tr>
<tr>
<td>Currency Conversion</td>
</tr>
<tr>
<td>Population</td>
</tr>
<tr>
<td>Per Capita Expenditure</td>
</tr>
</tbody>
</table>
THE EVOLUTION OF HEALTH CARE SYSTEMS IN NIGERIA

University of Benin Teaching Hospital in Nigeria, Omene and co-workers reported that the perinatal mortality rate was 89 in 1974, but it dropped to 33 in 1980 and by 1986 it was back up to 57. In 1990 no reliable data is available, but it is estimated that the rate is near the 1974 level. The reduction of the rate by two-thirds between 1974 and 1980 coincided with the development of an aggressive and effective neonatology program at the Teaching Hospital which reduced to almost zero the deaths within the first week of life. Today from the same hospital the perinatal mortality rate is as high as 110-120 per 1000.

Infant mortality rate: This is the death of an infant before the first birthday and it is measured as the number of deaths per 1000 infants. In Nigeria, this figure in 1960 was 190; in 1978 it was 157 and the latest figures obtained for 1988 range from 104 to 110. There are lots of concerns with the figures for 1988 because they do not appear to be consistent with the realities of the health situation in Nigeria. However, the situation has improved somewhat over the last 20 years. The United States Central Intelligence Agency now publishes a “Factbook” on State of the Worlds Health and it has estimated Infant Mortality for Nigeria since 2003, as follows: In 2003, Infant Mortality was 71.35, but in 2004, it rose to 98.8, which was a 38.5% jump. It remained unchanged in 2005 and dipped slightly in 2006 to 97.14. In 2007, it dipped further to 95.52, then remained at 95.72 in 2008, 94.25 in 2009 and, this year, it is 94.35. According to UNICEF’s report on the “State of the World’s Children” in 2010, Infant Mortality in 1990 was 120 while in 2008, it was 96.4. No reason was given for this decline, but credit must go to Health Care Institutions and health care providers.

Under-5 mortality: This is the total number of infants that die before their fifth birthday and the rate is measured per 1000 children. This value includes the infant mortality rate. For Nigeria, this value was 318 in 1960, 209 in 1978 and 174 by the latest data of 1988. As is the case with the infant mortality data, we have concerns that the 1988 figures may have grossly underestimated the enormity of this problem in Nigeria. UNICEF’s “State of the World’s Children 2010” reports that in 1990, Under-5 mortality rate in Nigeria was 230, and in 2008, it was 186. There are only 30 nations with under-5 mortality of greater than 170 and Nigeria is one of them. In 2007, the federal Ministry of Health published a report on Integrated Maternal, Newborn and Child Health Strategy, in which it is stated, “The country loses 2,300 under-five years old and 145 women of childbearing age everyday, making Nigeria the second largest contributor to the under-five (5U5MR) and maternal rate (MMR) in the world.” In a separate report published in Lancet in 2003, Black and co-workers stated that 1 million Nigerian children die before their fifth birthday every year, a figure that amounts to 10% of the world total annual deaths.

Prematurity: This is the birth of a baby, whose gestational age is between 28 and 37 weeks. In Nigeria, the estimated rate as of 1984 is between 5 and 7.5%. Because of obvious worsening health care services, this value is probably higher now. Today, it looks as if nobody cares enough to keep any records.

Low birth weight: This is the birth of a baby that weighs less than 2500 grams. Whereas the frequency in the USA and most developed countries in about 6%, the frequency in Nigeria in the late 1970's to early 1980's was 20-25%, with unpublished evidence that it is getting worse. Today no published data is readily available.

Maternal mortality: This is the death of a mother arising from complications of childbirth, measured in this report, as number of deaths per 100,000 births. Whereas in the USA this value is about 8, in Nigeria the 1988 value is 800, meaning that 8 out of every 1000 births is likely to result in maternal death, a figure that is 100 times higher than in the USA. The World Bank reports 1500 in 1980 but UNICEF reports 800 in 1988. It is difficult to conceive of a nearly 50% reduction in maternal mortality, when the evidence available seems to suggest a declining state of general well being since 1980. Today the estimate is about 1100 but the data is at best questionable. If maternal mortality rate is about 1100 in Nigeria, a country with a population of about 150 million, it means that about 53,000 women die from pregnancy-related complications every year in Nigeria. Given that the global pregnancy-related maternal death is estimated at 529,000, it means that Nigeria contributes about 10% of world maternal deaths. There have been many advocates for safe-motherhood in Nigeria. None is so persistent, so knowledgeable and so passionate as Professor Kelsey Harrison, whose many writings on this subject, I hope, can be made available as a publication for posterity. One cannot even imagine how Professor Harrison and his countless protégés’s feel about a subject they have invested so much effort in, yet making no substantial dent on the painful statistics. In one of his most recent public addresses in Nigeria, Professor Harrison states, “One of the greatest failings in Nigeria and one that is partly responsible for much of the confused state of affairs be it in health care or whatever, is not knowing enough about the past and unwillingness to learn from it.”

Population: Nigeria’s population at Independence in 1960 was estimated at 46 million. In 30 years the population reached 110 million. It is estimated that the population growth rate between 1965 and 1980 was 2.5%, but between 1980 and 1990, the growth rate is about 3.5%. The current growth rate is about 4%, 4 times higher than in the USA and 6 times higher than in Japan. Nigeria is the tenth most populous nation in the world with a population estimated at 150-160 million. One out of every four Black Africans is a Nigerian.

GDP per Capita: Nigeria is ranked the 158th poorest country in the world out of 177 countries surveyed, according to the 2005 Human Development report, also cited by the Federal Ministry of Health report of 2007. In 1994, the World Bank reported a figure of US$260. By 2005, the World Bank reported a value of US$360. In 2009 however, the United States Central Intelligence Agency World Factbook reports a value of US$2400. This amount is still being used today, although everyone knows that it is inaccurate in view of the fall in the value of Nigerian currency without a corresponding rise in the overall Gross National Product. Also, the distortion of this value by the wide gap between the rich and the poor is not reflected. The proportion of the population that is below absolute poverty is not certain in Nigeria, but estimates ranged from 65 to 85 percent 10 years ago, but now it is about 53%.

Life expectancy: This is the number of years newborn children would live if subject to the mortality risks prevailing for the
cross-section of the population at the time of their birth. For Nigeria, the life expectancy was 40 in 1960 and it is generally believed that it was 51 for all sexes (49 for males and 53 for females) in 1990. Today it is estimated at 42 (thanks to the scourge of HIV/AIDS).

**Access to safe drinking water:** Only 46% of the Nigerian population is said to have access to safe drinking water. When this is broken down to urban and rural Nigeria, it is estimated that while 100% of the urban dwellers have access to safe drinking water, only 20% of the rural dwellers have access to safe drinking water. The 100% figure for urban Nigeria is quite misleading. In the first place, water is not available 100% of the time. Secondly, when water is available, at least 50% of the homes do not get it. Consequently, there are modern homes in urban Nigeria with water systems, connected to the city water lines that have never had water run through them in 10 years. Viewed against this background, therefore, the figure of 46% is exaggerated. In an article titled, “World Water day 2010: Nigerians still lack access to clean water”, published in “Business Day”, on March 22, 2010, it was stated, inter alia, that “the inadequacy of drinking water has however propelled some wealthy Nigerians to drill boreholes while those who don’t have access to such are left with an option of carrying kegs in search for water no matter the distance. Sadly, even children of tender age are not left out of this search”.

**Immunization of children and pregnant women:** For a one-year-old to be fully immunized, he must have received 1 BCG (TB), 2 or 3 DPT (diphtheria, pertussis, tetanus), 2 or 3 OPV (oral polio vaccine) and 2 MMR (measles, mumps and Rubella). In the absence of MMR, measles only. The data available for 1960 is very scanty, but the estimate is 5-10%. The data for 1981 is about 23%, while for 1988 it is close to 75%, reaching a high point of about 80% in 1990. This represents 6-10 fold improvement in this health status indicator since independence. The 1983-1986 massive EPI (Expanded Program of Immunization) campaign supported by the federal and state governments with huge financial and material aid from UNICEF achieved enormous success in this regard. Today there is a shameful decline in the percentage of eligible children immunized. The available UNICEF data puts the number at 13%.

I will like to give this issue some prominence here because it highlights our failure not only in leadership but also in effective policy-making. The 13% of fully immunized children in Nigeria is the lowest in the world, even lower than in many countries in perennial conflict, such as the Republic of Congo. In some states in Nigeria, the rate is less than 1%. Nigeria’s performance on routine immunization has continued to decline since the high point achieved in 1990, so states the Nigerian Demographic Health Survey (NDHS) in 2003 and supported by the National Immunization Coverage survey (NICS) conducted by National Program on Immunization (NPI). As already stated, under-5 mortality rate was nearly 200/1000 and it is estimated that Vaccine Preventable Diseases (VPD) accounts for about 22% of these. About 5 million babies are born in Nigeria every year, which means that nearly 1 million children die annually out of which >200,000 are preventable if adequately immunized.

The immunization of mothers against tetanus was equally successful. Whereas in 1960 this was rare, by 1981 about 11% of pregnant mothers were being immunized against tetanus to protect their unborn babies from neonatal tetanus, which has a near 100% fatality rate. By 1988, this figure has jumped to 20%. This success can also be credited to the EPI campaign. Today the value is less than 5% by all accounts.

<table>
<thead>
<tr>
<th>Table 4: Selected Population Health Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Perinatal Mortality (per 1000)</td>
</tr>
<tr>
<td>Infant Mortality (per 1000)</td>
</tr>
<tr>
<td>Under 5 Mortality (per 1000)</td>
</tr>
<tr>
<td>Prematurity (%)</td>
</tr>
<tr>
<td>Low Birth Weight (%)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 5: Selected Population Health Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Maternal Mortality (per 100,000)</td>
</tr>
<tr>
<td>Population (million)</td>
</tr>
<tr>
<td>GNP Per Capital ($)</td>
</tr>
<tr>
<td>Life Expectancy (years)</td>
</tr>
<tr>
<td>Immunization</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Main Health Problems

Tables 6 and 7 are my attempts at summarizing this information. The data that is available for assessing Nigeria's main Health Problems are very fragmented, unreliable and almost impossible to interpret. I have selected only a few disease entities to highlight the fact that there is a changing pattern of disease prevalence among the sick in Nigeria. Malnutrition is age-specific, occurring in the under-5 year old. Whereas only 10 to 15% of all sick children were malnourished in 1960, in 1990 and 2000, the value was between 50 and 60%. Another age-specific disease, Measles, showed a downward trend in 1990, but by 2000, the figure was back up to 1960 rate. This is probably because of relaxation of the immunization initiatives of the 80's and early 90's. Hypertension is also age-specific and seen amongst adults 18 and above. No record was available to me for 1960 but, in 1990, hypertension was seen in 20% of all adults in Nigeria. The data for 2000 puts the rate at 30% to 35%. It is my belief that if the population is screened again, the frequency of hypertension will be much higher than that of 1990 because of new stresses and new uncertainties. Trauma has taken a giant leap among the health care problems of Nigerians. It is believed to be the most common cause of death amongst Nigerians, particularly trauma arising from Road Traffic accidents. Homicide is now a close second. Homicide is strictly speaking not a health care problem because those affected are already dead, needing no health care. However, it has reached an epidemic proportion, adversely affecting the economic and social life of Nigerians. The feeling of insecurity has created a feeling of pervasive fear in every section of Nigeria. Consequently, the very sick cannot be rushed to the hospital or to a health care facility in the middle of the night. It is for this reason alone that Homicide is included among major health problems.

It will be impossible to discuss the full impact of HIV/AIDS on the health of Nigerians. The prevalence of HIV/AIDS in Nigeria is 5.4% among 15 to 40 year olds. It varies from 7.0% in North Central to 3.2% in North West. It is found in every socio-economic group, from civil servants to students. It is a rapidly fatal disease, associated with frequent infections and the classic “wasting syndrome”. Because of HIV/AIDS, the entire African continent is filled with children without parents. It has impacted the economy of Nigeria adversely, such as loss of investment, increases in healthcare costs, reduced life expectancy, fertility rate and decrease revenue because most fatalities occur among those in their most productive years. In agriculture, it has caused decreased crop productivity and loss of international competitiveness.

In developed countries, this disease has stretched health care financing to its limit. In the USA, for an individual with HIV/AIDS to be treated adequately with the full complement of anti-retroviral drugs, it costs $2000/person/month. There are about 5.2 million Nigerians with HIV/AIDS. In the 2004 budget, only Six Billion Naira was voted for the treatment of the disease. This amounts to $8.07/person/year. What a colossal joke! Sadly also is the fact that governments in Nigeria have not leveraged or made full use of the resources and opportunities for improving HIV prevention, including screening, treatment, care and support provided by PEPFAR and agencies such as Bill gates Foundation.

The HIV/AIDS pandemic has reversed many of Africa's developmental achievements of previous decades, particularly in Sub-Saharan Africa, and it has clearly emerged as the paramount threat to development. In an article published in “TRUST” by Hussain J. Ibrahim and his co-journalists on April 16, 2010, they state, “Nigeria is rated 23rd as the country with the highest number of people living with HIV/AIDS. Worryingly, newer carriers of the scourge are adding to the figures of the infected, creating more demands for Anti Retroviral Drugs and hospital facilities to manage the patients just at a time when HIV/AIDS funding to fight the spread of the scourge is declining and the hospitals are in poor shape.”

WHICH WAY FORWARD IN THE 21ST CENTURY?

As you may imagine, I have reflected upon this question for a long time. As I reflect upon this, it dawned on me that the answer to our Health care problems cannot be too far away. In a more global sense, Nigeria's problems can only be solved by Nigerians and, by that same reasoning, Nigeria's health care problems can only be solved by Nigeria's health care providers. In every civilized society of the world, doctors usually lead the provision of health care. Just as the credit for sound health care go to doctors, so must the blame for abysmal health care go to doctors. Therefore, my candid opinion is that the solutions to our health care problems lie in the hands of doctors.

Doctors are organized, in Nigeria, under the umbrella of the Nigerian medical Association (NMA). By extension therefore, the solution to our Health care problems is in the hands of the NMA. The NMA is the only recognized professional association of doctors under the Nigerian Law. A critical look at this law will tell you that the NMA has not touched the surface of the powers it has under the law to move health care forward. Let us briefly review the NMA as an organization. The beginnings of the NMA can be traced back to 1951 when a

---

### Table 6: Main Health Problems (%)

<table>
<thead>
<tr>
<th>Disease</th>
<th>1960</th>
<th>1990</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malnutrition</td>
<td>10-15</td>
<td>40-50</td>
<td>50-60</td>
</tr>
<tr>
<td>Malaria</td>
<td>20-30</td>
<td>50-60</td>
<td>50-60</td>
</tr>
<tr>
<td>Measles*</td>
<td>20-25</td>
<td>15-20</td>
<td>20-30</td>
</tr>
<tr>
<td>Tetanus*</td>
<td>0.5</td>
<td>1</td>
<td>2-4</td>
</tr>
<tr>
<td>Pertussis*</td>
<td>NA</td>
<td>1-2</td>
<td>3-5</td>
</tr>
<tr>
<td>Polio</td>
<td>NA</td>
<td>1-2</td>
<td>1-2</td>
</tr>
</tbody>
</table>

*Age-specific diseases

### Table 7: Main Health Problems (%)

<table>
<thead>
<tr>
<th>Disease</th>
<th>1960-</th>
<th>1990</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hypertension*</td>
<td>NA</td>
<td>20</td>
<td>30-35</td>
</tr>
<tr>
<td>Road Traffic Acc.</td>
<td>NA</td>
<td>6-8</td>
<td>15-20</td>
</tr>
<tr>
<td>Other Trauma</td>
<td>NA</td>
<td>3-5</td>
<td>10-12</td>
</tr>
<tr>
<td>Homicides</td>
<td>NA</td>
<td>1-2</td>
<td>4-5</td>
</tr>
<tr>
<td>HIV/AIDS</td>
<td>NA</td>
<td>NA</td>
<td>10-15</td>
</tr>
<tr>
<td>Cancer</td>
<td>NA</td>
<td>0.5</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*Age specific diseases
Main Health Problems

Tables 6 and 7 are my attempts at summarizing this information. The data that is available for assessing Nigeria's main Health Problems are very fragmented, unreliable and almost impossible to interpret. I have selected only a few disease entities to highlight the fact that there is a changing pattern of disease prevalence among the sick in Nigeria. Malnutrition is age-specific, occurring in the under-5 year old. Whereas only 10 to 15% of all sick children were malnourished in 1960, in 1990 and 2000, the value was between 50 and 60%. Another age-specific disease, Measles, showed a downward trend in 1990, but by 2000, the figure was back up to 1960 rate. This is probably because of relaxation of the immunization initiatives of the 80's and early 90's. Hypertension is also age-specific and seen amongst adults 18 and above. No record was available to me for 1960 but, in 1990, hypertension was seen in 20% of all adults in Nigeria. The data for 2000 puts the rate at 30% to 35%. It is my belief that if the population is screened again, the frequency of hypertension will be much higher than that of 1990 because of new stresses and new uncertainties. Trauma has taken a giant leap among the health care problems of Nigerians. It is believed to be the most common cause of death amongst Nigerians, particularly trauma arising from Road Traffic accidents. Homicide is now a close second. Homicide is strictly speaking not a health care problem because those affected are already dead, needing no health care. However, it has reached an epidemic proportion, adversely affecting the economic and social life of Nigerians. The feeling of insecurity has created a feeling of pervasive fear in every section of Nigeria. Consequently, the very sick cannot be rushed to the hospital or to a health care facility in the middle of the night. It is for this reason alone that Homicide is included among major health problems.

It will be impossible to discuss the full impact of HIV/AIDS on the health of Nigerians. The prevalence of HIV/AIDS in Nigeria is 5.4% among 15 to 40 year olds. It varies from 7.0% in North Central to 3.2% in North West. It is found in every socio-economic group, from civil servants to students. It is a rapidly fatal disease, associated with frequent infections and the classic “wasting syndrome”. Because of HIV/AIDS, the entire African continent is filled with children without parents.

The HIV/AIDS pandemic has reversed many of Africa's developmental achievements of previous decades, particularly in Sub-Saharan Africa, and it has clearly emerged as the paramount threat to development. In an article published in “TRUST” by Hussain J. Ibrahim and his co-journalists on April 16, 2010, they state, “Nigeria is rated 23rd as the country with the highest number of people living with HIV/AIDS. Worryingly, newer carriers of the scourge are adding to the figures of the infected, creating more demands for Anti Retroviral Drugs and hospital facilities to manage the patients just at a time when HIV/AIDS funding to fight the spread of the scourge is declining and the hospitals are in poor shape.”

**WHICH WAY FORWARD IN THE 21ST CENTURY?**

As you may imagine, I have reflected upon this question for a long time. As I reflect upon this, it dawned on me that the answer to our Health care problems cannot be too far away. In a more global sense, Nigeria's problems can only be solved by Nigerians and, by that same reasoning, Nigeria's health care problems can only be solved by Nigeria's health care providers. In every civilized society of the world, doctors usually lead the provision of health care. Just as the credit for sound health care go to doctors, so must the blame for abysmal health care go to doctors. Therefore, my candid opinion is that the solutions to our health care problems lie in the hands of doctors.

Doctors are organized, in Nigeria, under the umbrella of the Nigerian medical Association (NMA). By extension therefore, the solution to our Health care problems is in the hands of the NMA. The NMA is the only recognized professional association of doctors under the Nigerian Law. A critical look at this law will tell you that the NMA has not touched the surface of the powers it has under the law to move health care forward. Let us briefly review the NMA as an organization. The beginnings of the NMA can be traced back to 1951 when a...
medical association was created as a Nigerian branch of the British Medical Association (BMA). By Independence in 1960, members of this Nigerian branch of the BMA began the formation of an independent NMA. Two years later, the NMA was officially recognized by the Nigerian government, a recognition that has persisted today. The NMA is the largest medical association in all of Africa, South of the Sahara. It is composed of over 35,000 doctors, nurses and dental practitioners. It is one of the most respected civil organizations in Nigeria. The mission of the NMA is as follows:

1. To ensure that Medical and Dental Practitioners... uphold the Hippocratic Oath.
2. To promote the advancement of Health, and allied Sciences.
3. To assist... Nigeria in the provision of smooth, efficient and effective health care delivery system.
4. To promote the welfare and interaction of all medical and dental practitioners in the Country.
5. To co-operate with organizations anywhere in the world which have similar aims and objectives.
6. To consider and express views on all proposed legislations and national issues especially those affecting health care delivery system and medical and dental education in Nigeria.

As I examine these very elaborate mission statements, I begin to ask myself rhetorically, how the NMA can re-focus its mission. In my opinion, the way to do this is contained in the laws of Nigeria. The powers of the NMA are contained in the laws that established the Nigerian Medical and Dental Council (NMDC). The Medical and Dental professions in Nigeria are regulated by the Medical and Dental Practitioners Act Cap 221 Laws of Federation of Nigeria 1990 which sets up the Medical and Dental Council of Nigeria with the following responsibilities:

1. Determining the standards of knowledge and skill to be attained by persons seeking to become members of the medical or dental profession and reviewing those standards from time to time as circumstances may permit.
2. Securing in accordance with provisions of this Law the establishment and maintenance of registers of persons entitled to practice as members of the medical or dental profession and the publication from time to time of lists of those persons.
3. Reviewing and preparing from time to time, a statement as to the code of conduct which the Council considers desirable for the practice of the professions in Nigeria.
4. Performing the other functions conferred on the Council by this Law.

Section 8 of the law stipulates that a person shall be entitled to be fully registered as a medical practitioner or as a dental surgeon if

(a) he has attended a course of training approved by the Council under section 9 of this Act as respects the medical or dental profession, as the case may be;
(b) the course was conducted at an institution so approved, or partly at one such institution and partly at another or others;
(c) he holds a qualification so approved; and
(d) he holds a certificate of experience issued in pursuance of section 11 of this Act.

2. Subject as aforesaid, a person shall be entitled to register any postgraduate qualification if the qualification is approved by the Council in a specialized branch of medicine or dental surgery.

Among other provisions, Section 9 of the law gives power to the Council to approve courses of training, institutions awarding medical degrees and the standard of medical education. Section 10 of the law empowers the NMDC not only to monitor curriculum of Medical Schools, but also to monitor the conduct of examinations for the award of medical degrees.

Section 14 of the law gives a detailed prescription of the responsibility of every doctor to the NMDC and the NMA. It states, among other provisions, that,

1. Subject to subsection (2) of this section, no medical practitioner or dental surgeon shall practice as a medical practitioner or dental surgeon as the case may be, in any year unless he has paid to the Council in respect of that year the appropriate practicing fees prescribed.

2. A medical practitioner or dental surgeon during his service year in the National Youth Service Corps Scheme shall be exempted from the payment of practicing fees.

3. The Council may, with the approval of the Minister from time to time, vary the practicing fees prescribed under subsection (1) of this section.

4. The Council shall share the aggregate amount collected as practicing fees during the year as follows

   i. 70 per cent to the Nigeria Medical Association; and
   ii. 30 per cent to the Medical and Dental Council of Nigeria.

5. Any medical practitioner or dental surgeon who in respect of any year and without paying the prescribed practicing fees practices as such shall be guilty of an offence.

The composition of the NMDC is very homogeneous professionally (all members must be doctors) but very heterogeneous demographically. The composition can be found in section 2 of the law and it is as follows:

The Council shall consist of a Chairman to be appointed by the President, and the following other members, that is

(a) Two representatives of the Federal Ministry of Health both of whom shall be fully registered medical practitioners or dental surgeons;
(b) The Chief Medical Officer (or however called) of the Ministry of Health of each State of the Federation;
(c) One representative of the Armed Forces Medical Services.
(d) One representative of the National Post-Graduate Medical College;
(e) Three representatives of Colleges or Faculties of Medicine of Universities in the Country to be appointed by the Minister in rotation from among the provosts or deans of such Colleges or faculties, however so that no two of such persons shall be from the same University;
(f) Two representatives of the medical and dental professions to be appointed by the Minister;
(g) Eleven members of which nine shall be from the Nigeria Medical Association and two shall be from the Nigerian Dental Association;
(h) One representative of alternative medicine practitioners;


THE EVOLUTION OF HEALTH CARE SYSTEMS IN NIGERIA

(i) Two pathologists to be appointed by the Nigerian National Post-Graduate Medical College.

Of the 59 members of Council, 9 are appointed by the NMA (>15% of the total) and 2 by the Nigerian Dental Council (NDA). Together, the associations have 11 members (almost 19%), the most powerful single interest group. With a little bit of effort, the NMA can influence the appointments of a number of the other members. The laws give this association unbelievable amount of powers as far as the conduct, training and practice of medicine goes in Nigeria.

How can the NMA re-focus its mission? This time, the question is not rhetorical. We need to answer this question together because, therein lay some crucial answers we are looking for. There is no doubt that the framers of the law intended for the NMA to have an overwhelming influence in Health care issues in Nigeria. I have taken the trouble of elaborating on the laws establishing the NMDC to expose this potential power. In the last 50 years, what has stunted, and probably retarded, the growth of health care delivery in Nigeria? In my opinion, there have been many obstacles, the five most devastating being,

1. A population that is growing much faster than the growth of services
2. Inequity in the distribution of health care facilities and manpower
3. Poor execution and coordination of primary care services programs
4. Inadequate financial allocation to health.
5. An economy that is plagued by large scale corruption by custodians of the economy, a largely single export economy, huge inflation and ever widening gap between the “haves” and the “have-nots”.

In which of these areas can NMA have influence? A population which is growing too rapidly needs an extensive investment in public education and family planning. Can the NMA exert any influence in this area? The unequal distribution of health care facilities and manpower needs a sustained recognition of the health care problems of the rural areas. Does the NMA have the mandate to speak to this issue? Nigeria needs an aggressive and persistent pursuit of primary health care for. There is no doubt that the framers of the law intended for the NMA to have an overwhelming influence in Health care issues in Nigeria. I have taken the trouble of elaborating on the laws establishing the NMDC to expose this potential power. In the last 50 years, what has stunted, and probably retarded, the growth of health care delivery in Nigeria? In my opinion, there have been many obstacles, the five most devastating being,

1. A population that is growing much faster than the growth of services
2. Inequity in the distribution of health care facilities and manpower
3. Poor execution and coordination of primary care services programs
4. Inadequate financial allocation to health.
5. An economy that is plagued by large scale corruption by custodians of the economy, a largely single export economy, huge inflation and ever widening gap between the “haves” and the “have-nots”.

In which of these areas can NMA have influence? A population which is growing too rapidly needs an extensive investment in public education and family planning. Can the NMA exert any influence in this area? The unequal distribution of health care facilities and manpower needs a sustained recognition of the health care problems of the rural areas. Does the NMA have the mandate to speak to this issue? Nigeria needs an aggressive and persistent pursuit of primary health care program that can reach the masses. As a former Federal Minister of health, Professor Olikoye Ransome-Kuti, put it, “…the goal of health for all through primary care can only be achieved through persistence and determination” 13. In his time, Professor Ransome-Kuti was a leader of a movement for responsible implementation of Health Policies like no one else. His brother, Dr. Beko Ransome-Kuti, who was once a very dynamic vice-president of the NMA and chairman of the Lagos State branch, suffered personal humiliations and indignity in his crusade for better health for Nigerians. Many great NMA leaders before and after him suffered similar fate begging our political leaders to be sensitive to the health care needs of our people. Nigeria needs a budgetary allocation to health that meets WHO recommendation of a minimum of 5% of the GNP. Can the NMA rise to the occasion and hold our leaders accountable for not honoring this basic world standard? Nigeria needs the political “WILL” to confront the looters of our treasury and to evolve policies that can diversify our economy. Nigeria needs to rebuild our middle class which has literally been wiped out of existence. Does the NMA have the political “WILL” to challenge the status quo?

The NMA is a very powerful establishment by law. I will summarize by asking a few more, not so rhetorical, questions.

1. Does the law give any doctor the option of refusing to pay dues to the NMA? The law makes every doctor practicing in Nigeria technically a member of the NMA.
2. Does the NMA have the power to regular the conduct of medical practice in Nigeria?
3. Does the NMA have the power to establish guidelines for the establishment of health clinics?
4. Does the NMA have the power to provide guidelines for changing curriculum for medical instruction at all levels of training? Obviously if this happens, a new crop of doctors appropriately suited to meeting the challenges of health care delivery in Nigeria will emerge. It is well known that we can not attain Global intellectual growth and recognition without developing local talents and expertise.

Effective Graduate (Post-graduate) training is the only way of doing this. The NMA, as it stands today, plays no role whatsoever in the conduct and the training of our local experts. That should not be so. We must however, pay tribute to the Medical and Dental Consultants of Nigeria (MDCAN), for their relentless efforts in this regard. The NMA must assume leadership in all facets of medical training, and use this power under the law in distributing responsibilities to various stakeholders in order to achieve well articulated goals in medical education at all levels of training. The first important step in this regard, in my opinion, is a moderated “Strategic Planning” session involving all interest groups.

In this presentation, I have tried to discuss with you my thoughts about the changes in the health care systems in Nigeria. I have also tried to paint a realistic picture of the state of our health care today. I never set out, from the title of my presentation, to try to give you solutions to the problems. I only promised to suggest to you, the way forward and, in my opinion, that way is through the Nigerian Medical Association.

True, the picture of our health care today is pathetic. In
spite of that, we have very able compatriots at home who have defied all odds and continue to carry the burden of health care delivery under hostile circumstances. We salute their efforts.

Acknowledgement

My thanks to the President of the Association of Nigerian Physicians in the Americas (ANPA), Dr. Julius Kpaduwa, and the ANPA Executive, Dr. Fiemu Nwariaku (President-Elect), Dr. Yele Aluko (Immediate Past President), and Dr. Nkem Chukwumerije (Treasurer) for encouraging me to produce this work and for sponsoring my trip to Nigeria to deliver this keynote address. Thanks also to Dr. Prosper Igboeli, President of NMA and to Professor Stanley N.C. Anyanwu, Chair of the Program Committee for selecting me as the keynote speaker. Special thanks to Dr. Deji Adefuye and Dr. George Ntiri for suggestions and editorial work.

REFERENCES
7. CIA Factbook: Published by the Central Intelligence Agency of the USA, 2010.