Filling the Gap

Report of the International Tropical Neurology Conference in Mumbai, India

Tropical neurology is a pertinent subspecialty of neurology. However, in the past, it did not receive the attention it deserved. In the World Federation of Neurology (WFN), tropical neurology was introduced as one of the major themes during the World Congress of Neurology in New Delhi in 1989. A research group was formed and some outstanding international meetings were held, but only for a short period of time. The enthusiasm eventually waned, and there were no further meetings. Likewise, the Journal of Tropical and Geographical Neurology, initiated by Dr. Charles Poser, also faded quickly.

An international tropical neurology conference, held March 24-26, 2017, in Mumbai, India, was an effort to fill the gap. It was organized by the Indian Academy of Neurology.

The Need for World Congresses

An Invitation to the World Congress of Neurology, Kyoto, September 16-21, 2017

Reasons for attending and participating in congresses vary. There are those who like to travel and meet neurologists from other parts of the world, which they will never do even if they visited their countries. There are others who are attracted by the lure of the big names of speakers, the organizing associations, and the attractiveness of the cities. For world congresses, the attendees come in the thousands because the meetings transcend national, regional, or specialty categories. This means that there is something for everyone.

If you look at national neurological society meetings, they tend to have few outside speakers, but the attendees are colleagues, perhaps in the same institution or the one next door. You tend to know most attendees, and it serves not only to listen to what others are doing in their research or how they practice, but to hear about gossip and job opportunities and to obtain postgraduate certification.

Perhaps another advantage/disadvantage is that of language. Many national meetings are in the local language, which is well and good. The advantage is that neurologists will have a better understanding of what is being said and will be clearly advised on practice parameters and guidelines. On the other hand, the language of medicine and science is English and many national associations’ congresses will either have sessions in English or have completely changed their language to English.

The reasoning is clear. If a neurologist or a neuroscientist would like to publish internationally, then the only way to get a recognized indexed paper is to use the English language.
A New Horizon for Stroke Medicine in Egypt, Africa, and the Middle East

BY PROF. AHMED ABDELALIM

Egypt has the 15th largest population in the world, with approximately one-quarter of its citizens clustered in its capital, Cairo. Stroke medicine in Egypt has been facing many difficulties with implementation due to the economic problems and an inadequate number of stroke neurologists.

Kasralainy Medical School is the largest medical center in the Middle East, with a capacity of over 5,000 beds providing medical services to more than 2 million people per year, half of which are served in the emergency department. The first stroke unit was established over 20 years ago, but could not satisfy the need due to the rapidly growing population and difficulties with the insurance system.

The plan for a new stroke center was then created with great ambitions of going beyond offering medical services to providing stroke training and research opportunities to Egyptian, African, and Middle Eastern neurologists and to help raise community awareness. Over the years, the neurology department has sent many of its young members to European stroke centers, through grants, to be trained on modern stroke medicine together with in-house training on advanced life support and neurocritical care skills. Today, these neurologists have become the core of the new stroke unit and trainers to their younger colleagues.

In 2010, the hospital administration granted the place and funds to establish the new stroke unit. Due to the political circumstances in 2011, the project was halted until 2015, when the Kasralainy administration, led by Prof. Fathy Khodair, dean of the medical school, showed a great interest and determination to fulfill the project. In August 2016, the stroke unit was ready for a new start.

The new stroke unit has a capacity of 36 beds, which includes 14 intensive care (with ventilation capability), 14 intermediate care, four isolation, two thrombolytic therapy, and two resuscitation beds, with the capacity of providing thrombolytic stroke therapy concurrently for four or more patients. This makes the unit the largest high-dependency stroke unit in the Middle East fully run by neurologists, offering thrombolytic therapy and thrombectomy to all Egyptians free of charges. The unit provides advanced acute stroke treatment services, including neurosurgery; neurointervention, advanced neuroimaging, and neuro-rehabilitation for 1,500-2,000 patients per year.

The opening of the new stroke unit received another boost thanks to the new policy on supporting and promoting stroke medicine, together with the efforts of the Stroke Chapter of the Egyptian Society of Neurology, Psychiatry, and Neurosurgery to coordinate between stroke units on a national level and promote the use of guidelines and hospital-based registries. The training and research opportunities are further supported and extended by the WFN accreditation of the neurology department at Cairo University as a training center for English-speaking African neurologists.

The ongoing “revolution” of stroke medicine in Egypt has made the floor ready for great success for the new stroke treatment policy, with a better acute stroke treatment service and reduction of the national and regional burden of stroke. The new Kasralainy stroke unit is ready to play its leading role. •

Prof. Ahmed Abdelalim is the director of the Stroke Unit, Faculty of Medicine at Cairo University.
In essence national congresses are all well and good, but they lack an international outlook and global interaction. The second level is that of major regional international associations’ congresses, which are geographically distributed. There are six such congresses; two are annual and four are biennial. Some of these are well attended and professionally organized. However, in some regions with nascent associations, the concepts are still developing. The big regional organizations’ congresses are attended from outside their regions, and this is important for interaction. Such organizations certainly encourage work to be presented as well as out-of-region attendance to boost their figures and standing.

Looking at the plethora of specialty meetings and congresses, they obviously concentrate on specific topics. The degree of interest varies enormously. The speakers are obviously well known in their fields, but perhaps at times tend to concentrate on fine detail, which may not be of major interest to the audience. The attendance by and large relies on support from various sources to register and travel. The major advances in the specific field tend to be presented. Even if the neurologist is interested in the field in question, after a day or so the topics become a bit repetitious and some, if not the majority, will lose interest.

Specialty congresses, however, have a pivotal role to play in educating not only neurologists, but to propagate neuroscientific knowledge to other specialists, pharmacists, and psychologists, attending specialty meetings vital. Nurses, other health care professionals who find an explosion in attendance of travel. Over the last decade or two, there has been an explosion in attendance of other health care professionals who find attending specialty meetings vital. Nurses, therapists, pharmacists, and psychologists, to name a few, all need to listen to advances in their chosen field of specialty. These fields tend to be by and large covered in specialist congresses. The majority of such practitioners will shy away from large international congresses.

Drug industry-sponsored congresses and meetings tend either to be directed at a local group of medical practitioners or a targeted audience chosen by the sponsors. Governmental rules are rightly restricting sponsorship because public opinion is clearly against such practices. There is certainly a place for informing neurologists on the availability of certain drugs in their locality, and there is definitely a role to be played by the pharmaceutical industry. However, this has to be limited and controlled, rather than left to a self-governing code of practice.

In many parts of the world, the neurologist, as well as any other medical practitioner, can claim tax relief on congress attendance as part of the annual continuing medical education (CME) requirement. This practice in some localities is limited by governments to national meetings, and in some instances to international congresses, which carry certificates of approval from major international medical institutions. This practice has to be strict, as it deprives governments from taxation.

As you are all probably aware, the upcoming 23rd World Congress of Neurology (WCN) is being held Sept. 16-21, 2017, in Kyoto, Japan. We are all grateful for the Japanese Society of Neurology for hosting us. This is the showcase of global neurology. The biennial nature of the congresses makes them that bit different, and the general nature of the program is an attraction to many. The basic principle is to involve all six regional organizations and all of the specialties in neurology. Each one is asked to provide a program with conveners and speakers so that the essence of the specific field is distilled into one congress. Moreover, each congress is hosted by a national neurological society, and the competition is quite fierce. Holding the WCN is a privilege to the national society and its region. Congresses bring benefit to the society and the region. This has been seen time and again.

The WFN makes sure that our congresses are not, in the old sense, carbon copies, but have a basic structure and a distinct local flavor. Kyoto is no different. The Asian region’s competition was fierce, but the WFN council of delegates voted to award the congress to Kyoto. The WFN system of egalitarian democracy is unique in that the WFN leadership can only watch the delegates vote and decide. The choice and the decision is theirs.

Once the decision is made, the WFN works closely with the host society to produce the scientific program, teaching courses, and social programs. The role of the WFN and its congress organizer is to closely advise the host society on how the whole congress is constructed using previous experience, but adding a local touch.

The WCN is therefore a balanced and an appetizing mixture of all types of congresses — national, regional, specialty, and industry-sponsored meetings. The attendees is presented with the best of several worlds in a concise and a most perfectly packaged setting.

There is no doubt that it is a unique opportunity. I urge all of you to attend.
I am delighted to present my report on Sleep 2017. I had the privilege of attending this meeting through the sponsorship provided by the WFN as a recipient of a Junior Traveling Fellowship Award.

Sleep 2017 was the 31st annual meeting of the Associated Professional Sleep Societies, LLC (APSS) comprising the Sleep Research Society (SRS) and the American Academy of Sleep Medicine. Although I developed interest in pediatric sleep medicine during the course of my training in pediatric neurology, I have not been able to take formal training in sleep medicine or attend a conference on sleep. I am exceedingly grateful to the WFN for making this dream come true.

Sleep 2017 was held June 3-7 at the Hynes Convention Center in Boston, Massachusetts. It was an educational and impactful experience for me.

On Saturday, June 3, I attended a half-day postgraduate course on EEG Essentials for the Sleep Practitioner. Following that, I had the privilege of participating in the SRS Leadership Workshop. The educational programs organized by SRS continued on Sunday, June 4, with the Trainee Symposia Series. These two trainee development programs by the SRS were my best sessions at the meeting as I had the privilege of meeting and learning from leaders in the field of sleep medicine. I also had opportunities of networking with colleagues.

I presented my abstract on Monday, June 5. More than 1,200 abstracts were presented at Sleep 2017. The abstract presentation afforded me the opportunity to meet specialists and colleagues in sleep medicine working on similar research areas. I also met a number of Nigerians in the diaspora. They suggested many ideas that can improve my future research.

I also discussed the need for a sleep lab in my institution with many of them, and they offered useful suggestions on the way forward.

Sleep 2017 had many educational opportunities, which were highly beneficial especially for young professionals like me. There was never a dull moment as I attended sessions that included Invited Lectures, Conversations with Experts, Symposia, and Oral and Poster Presentations. I learned a lot from the pediatric sleep sessions, where discussions on actigraphy, pediatric narcolepsy, school start times, and parasomnias were discussed.

A major benefit of attending Sleep 2017 for me was the opportunity to visit the Boston Children’s Hospital where I saw the sleep lab. It further increased my quest to intensify efforts to get a functional sleep lab in my institution.

Despite the rainfalls, I was able to visit downtown Boston during the week. I also joined SRS trainees for a time out at the kickball game on Saturday.

I left Boston on Wednesday, June 7. I felt excited and fulfilled because Sleep 2017 was my best conference ever! I am grateful to the WFN for giving me this opportunity.

Oluwatosin Olorunmoteni presented her abstract at Sleep 2017 in Boston, Massachusetts.

Oluwatosin Olorunmoteni is from Obafemi Awolowo University in ILE-IFE, Nigeria.

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I was delighted when I received the news of my selection for the WFN-Turkish department visit program in October 2016. It didn’t actually take place until Feb. 18, 2017, due to visa procedures. I am grateful to Prof. Alfred Njamnshi and Prof. Serenfur Ozturk, as well as Burak Tokdemir, who facilitated my visa acquisition.

I arrived at the University of Selcuk, University Faculty of Medicine in Konya, Turkey, on Feb. 17, and immediately settled into my accommodations. The next day, I was warmly received by the staff of the Neurology Department under the leadership of Prof. Recep Aygul, who presented the service. I was handed a detailed program for my stay there. Each working day ran from 9 a.m. to noon and 1:30 p.m. During the four weeks, I spent each day from 9 a.m. to noon and 1:30 p.m. seeing patients hospitalized in the department, including those in Neurointensive Care. For the first week, the period from 1:30 p.m. to 5 p.m. was spent in outpatient consultation with the different consultant neurologists, and we received 18-25 follow-up cases and six to eight new cases per day. This exposed me to the manipulation of recent drugs and protocols in the management of patients with neurological disorders.

The remainder of my afternoons were spent in clinical neurophysiology labs: EMG, EEG, and polysomnography labs for the second, third, and fourth weeks, respectively. I carried out nerve conduction studies on patients who came during this period and did a good number of needle EMGs. All of these were conducted under the supervision of Prof. Recep Aygul and Dr. Hakan Ekmecki. My participation in the EEG sessions has improved my reading and interpretation of EEGs, especially video and sleep EEGs. During the last week of my stay, I had introductory lessons on evoked potentials and polysomnography, of which I did a few and assisted in their interpretation.

I participated in several staff meetings with other departments, including with neuroradiology and interventional radiology specialists to discuss cases of carotid artery stenosis, with endocrinologists, and ear, nose, and throat specialists to discuss the management of patients with sleep disorders, and with the department of psychiatry. There were other presentations.

From right to left: Prof. Recep Aygul, Prof. Serenfur Ozturk, Dr. Hakan Ekmecki, Dr. Leonard Ngarka, medical students, and Resident Dr. Azer Mammadli, during ward rounds.

Report of the Department Visit Program to Turkey

Experience to help improve treatment options in Cameroon

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Report on a Visit to Sleep 2017 in Boston

Oluwatosin Olorunmoteni presented her abstract at Sleep 2017 in Boston, Massachusetts.

Oluwatosin Olorunmoteni is from Obafemi Awolowo University in ILE-IFE, Nigeria.
IN MEMORIAM

Prof. Franz Gerstenbrand (1924-2017)

An advocate for neurological patients and a model for generations of neurologists

We have the sad duty of sharing the news of the passing of Prof. Franz Gerstenbrand.

Franz Gerstenbrand was born in 1924 in Hof (Moravia, Czech Republic). He completed his medical training in only four years under difficult post-war circumstances in Vienna. His specialty training was at the Psychiatric-Neurological University Department of Vienna University Hospital (Psychiatrisch-Neurologische Universität-Klinik Wien).

Chairied by Prof. Hans Hoff. As a pupil of Prof. Hoff, Prof. Gerstenbrand had great interest in traumatic brain injury and was the first to initiate a unit for traumatic brain injury treatment in Vienna. He also had a keen interest in child neurology.

In 1967, Prof. Gerstenbrand published his habilitation treatise on traumatic apallic syndrome, Das Traumatische Apallic Syndrome. This book for many years was regarded as standard literature on traumatic vegetative state in German-speaking countries, and it made him well known in Central Europe.

Prof. Gerstenbrand was appointed in 1976 as first chair to the University Clinic for Neurology in Innsbruck. He quickly recognized the upcoming needs and advantages of subspecialties within neurology. In the following 18 years, he helped initiate numerous subspecialties, including neurointensive care, neuroimaging, and caring and advocating for stroke patients. All of those initiatives were innovative in the second half of the 1970s. His decisions laid the foundation for the outstanding reputation of the University Clinic for Neurology in Innsbruck.

He was an active clinical researcher, publishing more than 780 papers. He also co-edited 12 textbooks and monographs.

Prof. Gerstenbrand was involved in many international collaborations, including one with the Institute for Biomedical Problems, Moscow, which led to the first Austrian-Russian space neurology collaboration. His team developed a series of experiments that were performed by a number of cosmonauts, including the first and only Austrian cosmonaut, Franz Viehböck.

In 1962, he initiated the Danube Symposium — a clear-sighted decision to bring together East and West European neurology. His strong belief was that Central and Eastern European neurology needed to be represented with a single voice. The Danube Symposia are still held each year.

His life was dedicated to advocating neurology, and many of his pupils have been successful clinicians, leaders, and advocates. Prof. Gerstenbrand was a model for generations of neurologists in Central Europe.

We express our condolences to his wife Gudrun, his children, and his grandchildren.

Networking
Throughout his life, Prof. Gerstenbrand advocated networking and collaboration within neurology. In 1991, immediately after the fall of the Iron Curtain, his strong advocacy and initiatives resulted in the foundation of the European Federation of Neurological Societies (EFNS), and he served as its first president. Those efforts were supported by Lord Walton, who at that time served as WFN president. EFNS was exceptionally successful, bringing together neurologists from all European countries. Part of the success was his strong belief that all European countries should have access and equal status in the organization. The EFNS was followed by the European Academy of Neurology.

Until recently, his thoughts and efforts were directed in supporting areas of the world that lacked neurologists, and where training was needed. His last efforts were directed in supporting areas in Asia and Africa. For many decades, he had strong cooperation with Myanmar. Only days after his funeral, colleagues from Austria traveled to Myanmar to teach an initiative he was arranging in his last weeks. As he had foreseen many neurology developments, Prof. Gerstenbrand had foreseen his own death. In his last weeks, he made arrangements for his funeral and bought a grave at the same cemetery near the grave of Hans Hoff, his admired teacher.

Prof. Gerstenbrand has received numerous awards, including honorary doctorates from Charles University in Prague and Aristotle University of Thessaloniki, the Valeriy Gagarin Medal of the Russian space organization, and several of the most prestigious medals in Austria.
Peripheral Nerve Society Meeting

Sitges, Spain, was the site of the July 2017 meeting

BY WOLFGANG GRISOLD

The 13th Congress of the Peripheral Nerve Society (PNS) took place July 8-13, in Sitges, Spain. The PNS hosts annual congresses, and the next congress will be in July 2018 in Baltimore, Maryland. In 2019, it will take place in Genoa, Italy.

For the International Congress on Neuromuscular Diseases (ICMND) 2018 in Vienna, the Neuromuscular Congress of the Research Group on Neuromuscular Disease of WFN, it is planned that a joint session of the PNS and ICMND will take place.

The Congress of the PNS is devoted to the peripheral nerves, not only on clinical entities, but building the gap between basic research and toward the clinical implications.

This year, there were 500 participants from more than 50 nations. The PNS has a strong emphasis on education, and about 100 young participants were sponsored to attend the meeting in order to present posters and platform presentations.

The scientific content contained many basic and translational aspects, such as the molecular aspects of node of Ranvier, the metabolic support of axons by Schwann cells, and the new models of auto-immunity to nodal components. Also, pain and ion channels were discussed in plenary lectures.

One of the concerns of the PNS is the research and treatment of inflammatory neuropathies. Treatment studies and open questions were discussed. Another important aspect is diabetic neuropathy, where worldwide an increase of diabetes as a noncommunicable disease is being observed. Mechanisms and possible treatments were discussed. The role of changing food habits, lack of exercise, and lifestyle seem to contribute to this development.

A future strategy in a worldwide campaign against diabetic neuropathy was initiated.

Several papers and posters addressed issues of genetic neuropathies. Increasingly, chemotherapy-induced neuropathies are attracting attention, not only in regard to prevention, but also pain treatment and management.

Neuropathic pain was a topic, and ion channels, particularly the PIEZO2, STOML3 channel, were explained and discussed. They will have an impact on our understanding of neuropathic pain. Also, the poster sessions contained several reports on treatment of neuropathic pain.

Daily poster sessions were filled with attendees. Many discussions and interactions took place. Many interesting and often rare observations were displayed and discussed. For scientific papers and merits, traditional prizes (as, for example, the PK Thomas prize) were awarded by the PNS.

In the final ceremony, Steven S. Scherer took over the presidency from Mary M. Reilly.

The congress was held in a nice venue—the Melia Hotel Sitges. Traditionally, as is familiar to all PNS meetings, the atmosphere was good and open, and interactions were encouraged. It was excellently organized, and provided a useful platform to exchange ideas and to engage in networking.

Mitochondrial transport down dorsal root ganglion axons is impaired by saturated fatty acids, a likely mechanism leading to energy loss and axonal neuropathy in Type 2 diabetes. The slide is from a lecture from Prof. Eva Feldman's lab.

**Mission Objectives**

The Research Group on Tropical Neurology was formed with a mission to foster research collaboration into poorly understood aspects of neurological disorders prevalent in the tropics and to disseminate knowledge at international and regional levels in this neglected area of neurology. One of the ways of achieving the mission objectives would be to organize regular biennial meetings of the Tropical Neurology Research Group in different locations, with a local emphasis on tropical disorders. The Research Group also will strive for representation of tropical neurological disorders in the scientific program of the World Congress of Neurology. An eventual undertaking should rightfully be the revival of the Journal of Tropical and Geographical Neurology.

Acknowledgements are due to all those who contributed to the Congress, including the eminent faculty, but most of all to the WFN for its generous support and to Dr. Shakir for the constant encouragement.
25 Years of Russian-German Neurological Cooperation
The Russian-German Neurological Society recognizes notable anniversary

BY PROFS. PETER WOLF AND ALLA B. GUEKHT

A meeting on Diseases of the Nervous System — Mechanisms and Treatment was held April 6-7 in Moscow to celebrate the 25th anniversary of the Association for Promotion of German-Russian Cooperation in Neurology.

This association, whose name was later changed to the Russian-German Neurological Society, is perhaps not well known in global neurology, but played an important role in the first period after the European system shifts of 1989-1990. Until then, for about half a century, there had been extremely few possibilities for neuroscientists of West Germany and the Soviet Union to meet and exchange their views or to publish in each other’s journals.

The scientific developments on both sides of the Iron Curtain often went different ways, and the post-World War II generations in East and West took different paths, and the post-World War II generations in East and West took different paths, and the post-World War II generations in East and West took different paths.

The new possibilities were first explored by Prof. Jefim Salganik of Gütersloh, a German neurologist who was born in the Soviet Union and had studied medicine in Moscow. He contacted and then visited Prof. Levon Badalyan of Moscow, who had been an opponent for sloh, a German neurologist who was received in Germany for a second commission of the German Neurological Society. Leading neurologists from both countries (Profs. Badalyan, Gusev, Guekht, Schimrigk, Wolf, Haass, Salganik, Manz, and many others) contributed to the establishment and further development of the society.

In the following years, annual meetings alternating between the two countries took place, and informal fellowships for the training of young neurologists were privately organized. More colleagues became interested and joined the society. Over the years, as international contacts and exchange possibilities multiplied, the general meetings lost their uniqueness and became rarer. However, in some subspecialties, bilateral cooperation intensified and deepened, especially in stroke, epilepsy, and neuromuscular diseases, where several early association members became national and international key players.

The 25th anniversary meeting was a welcome occasion to update newer research and to remember an initiative reflecting very well the spirit and optimism of the early 1990s, which definitely made a change for European neurology.

Prof. Peter Wolf is from Dianalund and Florianopolis, and Prof. Alla B. Guekht is from Moscow.

WFN JUNIOR TRAVELING FELLOWSHIP AWARD RECIPIENT
A Report from the International Congress on Parkinson’s Disease and Movement Disorders

BY WAEI. IBRAHIM

The 21st International Congress of Parkinson’s Disease and Movement Disorders was held June 4-8 in Vancouver, BC, Canada. The congress was organized by the International Parkinson and Movement Disorder Society. The purpose of the International Parkinson and Movement Disorder Society is to promote research and education on Parkinson’s Disease and Movement Disorders, to improve the care for patients who have Parkinson’s Disease and other Movement Disorders, and to facilitate the dissemination of information regarding movement disorders.

Skills and teaching courses held during the congress were an excellent opportunity to share and exchange scientific ideas and improve our education and experience. It is always great to attend the lectures and discussions on ongoing research projects, hear lectures on the most interesting topics, and provide an opportunity for networking.

It was an honor to present the results of my case report as a poster presentation, “Epilepsy and Cranial Nerve Affection in a Patient With Wilson’s Disease and Intracranial Developmental Venous Anomaly: A Case Report.” To our pleasure, we received several interesting questions and remarks from colleagues and field experts about the study design and data interpretation.

Overall, attendance at the congress was successful and helpful for my future development as a clinician and researcher. Attendance at the Congress was kindly supported by the WFN. I want to express my gratitude and happiness for this great opportunity. Great thanks and best wishes to all members of WFN.

Wael Ibrahim is from the Kasr al-Ainy Faculty of Medicine at Cairo University in Egypt.

Wael Ibrahim presented his poster, “Epilepsy and Cranial Nerve Affection in a Patient With Wilson’s Disease and Intracranial Developmental Venous Anomaly,” at the 21st International Congress of Parkinson’s Disease and Movement Disorders meeting.
Eponymous Women in Neurology

By Peter J. Koehler

The term eponym is derived from the Greek words ἐπί- “sur” and ὄνομα “name.” It is hardly possible to imagine daily life without eponyms, although we are not always aware of using them. Just think of diesel engine, pasteurized milk, degrees Fahrenheit or Celsius, to name a few. Eponyms are found in nearly all sciences, including mathematics, astronomy, physics, chemistry, geography, paleontology, and botany (to mention a few: Pythagoras, Gödel, Fourier analysis, Avogadro).

The use of eponyms is not new. Carl Linnaeus (1707-1778) used them in botany. Other eponyms became verbs (galvanize, faradize, or units: watt, amperé, ohm, joule). The French “prêtre” (prefix) of the Seine department Eugène-René Poubelle made the use of garbage cans obligatory, hence the French word “poubelle” for garbage can.

And what about the grenadier in Napoleon’s army. Nicolas Chauvin, who made propaganda for Napoleon following his return from the Island of Elba in 1815 (chauvinism)? A Dutch author estimated the return from the Isle of Elba in 1815 (chauvinism)!

A Dutch author estimated the use of eponyms to 2,500-1,000. The Eponyms Dictionary Index features approximately 20,000 eponyms, including scientific eponyms.

The choice of eponyms may tell something about the scientific evolution of the subject. Many eponyms in natural sciences, for instance, refer to persons from the 17th to 19th centuries, and the Scientific Revolution is supposed to have begun in the 17th century. As the scientific method in medicine was introduced in the mid-1800s, most medical eponyms find their origin after that period. Another interesting phenomenon to point to is that whereas 19th century eponyms are often single names, those from the late 19th and 20th century mainly consist of several names.

**Sources for Eponyms**

Medical eponyms are derived from various sources. They are not only named after the discoverer of a disease or microbe who is honored (Borrelia Burgdorferi, Pick disease, Alzheimer’s). Sources also include mythical figures (Ondine’s curse, Oedipus complex), fairy tales (Alice-in-Wonderland syndrome), literature (Pickwick syndrome, Ophelia syndrome), artists (Brueghel syndrome), location (Lyme disease, Glasgow coma scale), and famous patients (Lou Gehrig).

An important source for finding the meaning of medical eponyms is the www.whonamedit.com. The author, the Norwegian Ole Daniel Enersen, had the ambition to “present a complete survey of all medical phenomena named for a person,” with a short biography of that person.

**Advocates and Adversaries**

The use of eponyms is not generally accepted. There are adversaries and advocates. London neurologist William Gowers (1845-1915) wrote that “this system of nomenclature is full of inconvenience, increasing the difficulties of the student, and leading to frequent mistakes in scientific writings.” But he could not prohibit the use of his name in several eponyms.

In his monograph on reflexes, Robert Wartenberg (1886-1956) wrote that following the discovery by Joseph Babinski (1857-1932) of the extensor plantar reflex (1896), a plethora of reflexes was discovered. “The discoverers probably hoped to see their names immortalized. (See Figure 1.)”

The mania to associate eponyms to reflexes and phenomena was particularly endemic in Europe. Wartenberg was in favor of descriptive terms. However, descriptive terms also have disadvantages, for instance, when the understanding of phenomena or diseases change. Interestingly, he could not prevent the usage of his name for eponyms (e.g., Wartenberg sign for pyramidal involvement of the upper extremity).

A pro-con discussion on the use of eponyms was conducted some years ago in the British Medical Journal. The authors, who stated that the use of eponyms should be abandoned, provided several reasons, mostly quoting a short selection of rare, disputable eponyms. Of course, they were right proposing the deletion of eponyms connected with Nazi medicine. Larry Zeidman and colleagues have done research in this area during the past 10 years. They argue that some eponyms may bring about confusion or do not refer to the original discoverer is often heard and probably true. The person writing in favor of eponyms provided more general arguments, including the opinion that the eponym “brings color to medicine,” “provides a convenient shorthand,” and are “embedded in medical traditions and culture in our history.” She expected eponyms would stay, despite the objections of some. Probably the shorthand and reference to the historical person are the most important arguments provided in favor of the use of eponyms.

The Practical Use of Eponyms

Although done 20 years ago, a survey on neurological eponyms under Dutch neurologists (1997) provided interesting results. With 30 percent of the addressed members responding, a positive correlation was found between age of the responders and the knowledge of eponyms. The best-known eponyms were found in the category “tests and maneuvers.” Many of the responding neurologists and residents did not prefer descriptive terms above eponyms.

In another paper on neurological eponyms, the author mentioned the confusion that may arise when it is not clear whether the eponym refers to a syndrome or a disease. Moreover, there is an evolution of some of the eponyms, as our understanding of disease processes expands. There is even an eponym about the doubts of the origin: Stigler’s law of eponymy states that “no scientific discovery is named after its original discoverer.”

At least from a historical perspective, there is still interest in eponyms. Entering the term “eponym” in PubMed and limiting the search to “history of medicine” provides 1,034 hits. Adding “neurology” results in 121 hits. And how is the use of eponyms in textbooks? The index of a neurological textbook, Adams and Victor’s Principles of Neurology, counted 370 eponyms. Another example, Merritt’s Neurology, did not yield much less.

Eponymous Women in Neurology

Many eponyms concern men. Even if the name refers to a woman, not everyone will realize this. In April 2017, Dr. Stephen Reich, current chair of the History Section of the American Academy of Neurology, organized a history course in which eight eponymous women in neurology were presented. In the following section, I will summarize them.

**Dejerine-Klumpke Syndrome**

**Augusta Dejerine-Klumpke**

Born in San Francisco, Augusta Dejerine-Klumpke moved to Paris, where she studied medicine, and, not without difficulties, she became the first female intern of the Paris hospitals. She married Jules-Joseph Dejerine in 1888. She described the work by which she was eponymized in 1885 in the Revue de Médecine. It is about lower trunk brachial plexopathy with hand weakness. It is commonly associated with oculopupillary phenomena (Fornier’s syndrome). It is also referred to as Klumpke’s paralysis. (The paper was presented by Jennifer McKinney)

**Roussy-Lévy Syndrome**

**Gabrielle Lévy**

Born in Paris, where she studied medicine, Gabrielle Lévy became a pupil of
Francis Canavan. She became interested in from the Women’s Medical College of Canavan Disease / Myrtelle May Canavan (French) a case of this multisystem disease ried civil engineer F. Louis) published (in 1958).17 Louis-Bar later worked at the Polyclinic and was killed in 1942. (The paper was presented by Stephen G. Reich.)

Lucas Frey was born in 1889 in Lvov, Poland. He attended medical school in Liège and was known there as “la rousse medical” (the medical red-haired). (The paper was presented by Elisabeth A. Coon.) 4. Toodayan N, Boes CJ. The eponymous

Frey’s Syndrome / Lucja Frey

Frey’s Syndrome / Lucja Frey

Frey’s Syndrome / Lucja Frey

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Lucja Frey

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The Mary Walker Effect / Mary Broadfoot Walker

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Dix-Hallpike Maneuver / Margaret Dix

Margaret Dix (1902-1991) received her MD in 1957, after she had ended her career as a surgeon (she became a fellow of the Royal College of Surgeons in 1943), following an eye injury during the bombing of England in World War II. She became a neuro-otologist and trained with otologist Charles Skinner Hallpike. They worked at the otological research unit of the National Hospital for Neurology and Neurosurgery in London. Dix wrote many papers on several subjects, including the two classic papers on benign paroxysmal positional vertigo and the eponymous maneuver16-17. (The paper was presented by Douglas J. Lanska.)

Canavan Disease / Myrtelle May Canavan

Born in 1879 near St. Johns, Michigan, Myrtelle May Moore received her MD from the Women’s Medical College of Pennsylvania and married physician James Francis Canavan. She became interested in neuropathology, and from 1920 until her retirement in 1945, she worked as associate professor of neuropathology at Boston University and curator of the Warren Anatomical Museum at Harvard Medical School. She described the disease to which her name became attached in 1931, and it is now known to be an autosomal recessive neurodegenerative disease caused by a mutation in the ASH1 gene resulting in aspartylcyclinase deficiency. Canavan died from Parkinson’s disease in 1973. (The paper was presented by Lenora Lehwald.)

Hurler Syndrome / Gertrud Hurler

Gertrud Hurler was born in 1889 in Rastenburg, Prussia, and went to medical school in Munich. She trained as a pediatri- cian under Menhard von Pflander. She was given the cases of two brothers with dysmorphic features to study and describe. In addition, the children had de- velopmental delays and clouded corneas. She recognized the hypotonia, cognitive impairment, short stature, macrocephaly, scaphocephaly, delayed anterior fontanelle closure, course facial features with promi- nent facial hair as well as the hepatomegaly. Hurler published her paper in 1919. Despite a subsequent paper on the subject in 1920 by Von Pflander,27 the disease remained attached to her name. She was probably not aware of the publication by Charles Hunter, working in Winnipeg, Canada, who described two brothers without corneal clouding. When serving in Europe during World War I, he gave a presentation at the Royal Society of Medicine in London: “A rare disease in two brothers.”28 Frederick Parkes Weber (1863-1962), who was present at the meeting, concurred with the diagnosis of “gargoylism.” (The paper was presented by Margie Ream.)

References

1. This paper is based upon the Introduction and section Dis. Children, 104-116.


The World Federation of Neurology (WFN) has been a vital and integral part of my life for 18 years. I attended my first Council of Delegates meeting in 1999 to present the Australian bid to host the 2003 World Congress of Neurology, which was decided at the London WCN in 2001. From that time, my admiration, respect, and enthusiasm for the WFN has grown. The development and achievements of the WFN have been outstanding and made possible by the selfless contributions of all involved in the WFN so that the achievements of the WFN, accomplished with limited resources, have engendered a deep respect for our organization.

I have been fortunate to have observed first-hand what I believe to be the essence of the WFN.

I regard my two terms as an elected trustee, my term as first vice president, and serving as chair of the Membership, Fundraising, and Congress committees, as well as convener of the Global Neurology Network to have been a privilege and an opportunity to contribute to the team.

Why do I seek the office of president? The reasons are many, but they distill to four principle and complementary reasons.

First, I believe in what the WFN does and that I have the skills, experience, commitment, and understanding of the needs of the WFN to continue to grow the educational programs, such as those established in Africa and elsewhere. I also believe that I possess the vision for the direction for the WFN in the next four years and beyond.

Second, underlying the WFN’s mission is the recognition of the inequality that exists in the development and delivery of neurological care and education. To further tackle this fundamental issue, I have contributed to over 200 peer-reviewed articles, and I have published five books. I participated in two EU projects.

I have always been interested in education-related work. I have been part of several education committees, and I chaired the development of the “European board examination” and the WFN teaching course committee. I am also involved in European CME accreditation. I held several positions in national and international societies, such as EFNS, UEMS, EANO, ECCO, ACEP, and WFN. I organized a number of international congresses, such as EFNS 2002 and EANO 2006, and co-organized WCN 2011. Presently, I am involved in the organization of the international congress on neuromuscular disease, in 2018 in Vienna.

My name is Prof. Dr. Wolfgang Grisold, and I am a neurologist working in Vienna, Austria. After serving as the secretary general for the past four years and also the treasurer of the WFN from 2013 to 2015, I would like to stand for election for president of the WFN.

My motivation to do so involves two concerns. On the one hand, I want to ensure continuity of successful projects and cooperations. On the other hand, based on the conversations I have had with neurologists all over the world, I see the need to improve and further develop the infrastructure to support and empower neurologists on regional and global levels.

Before outlining my agenda as the president of the WFN, let me provide a few notes about myself. My focus is on general neurology, neuro-oncology, neuromuscular disease, palliative care, and education. In these fields, I have contributed over 200 peer-reviewed articles, and I have published five books. I participated in two EU projects.

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My activities at the WFN began in 2004 as a member of the education committee, which I presently co-chair with Steven Lewis, MD. I have been a WFN trustee since 2009, and I was elected the secretary general and treasurer in Vienna in 2013. After these positions were separated in 2015, I stayed in the role of the secretary general.

In this position, I have been involved in operational and administrative tasks on the micro and macro levels. This provided me with deep and valuable insights into the administrative structures and the widespread network of the WFN.

At the same time, I had the opportunity to shape, plan, and realize a variety of projects of the WFN. The policy to reach out, the empowerment of regions, and the efforts toward cooperation with international organizations have always been in the center of these efforts.

The WFN has been steadily increasing its influence, and I believe that the two most crucial factors for this development have been continuity of reliable structures and projects, and, furthermore, excellent collaboration of trustees and committees across regions, global networks, research groups, and, importantly, large political bodies, such as the WHO.

As a president, I will further strengthen these developments. The overarching theme of my agenda will be to support neurology worldwide, making neurologic services available, and helping
these systematically and successfully, the WFN requires an order of priorities. I propose to continue to target the inequity of access to neurological care, expertise, and education by encouraging member societies and their regional organizations to assist in the preparation of an inventory of “most urgent inequalities.” It is likely that some will be common and amenable to a formalized plan of assistance while others will be specific to a country or region and demand a more individual approach. We must develop a plan, and we should do it together.

Third, and in parallel with developing an inventory of and the plans and programs to tackle inequalities, I will be exploring the opportunities for the WFN and its member organizations to expand their association with both our two largest regional neurological organizations, the AAN and the EAN, and with global government, non-government, and regional intergovernmental organizations. These might include the European Union, the Gulf Cooperation Council, the Asia-Pacific Economic Cooperation, the Pan American Health Organizations. These might include the European Union, the Gulf Cooperation Council, the Asia-Pacific Economic Cooperation, the Pan American Health Organization, the World Federation of Medical Education, and the WHO, to mention some.

The approach would be to develop cooperative strategies similar to the Africa initiative and the way the WFN has interacted with the WHO via the World Brain Alliance and the Global Neurology Network. It would likely require the establishment of a task force drawn from within the WFN and, where necessary, from professional expertise outside the WFN. We would seek out potential partners, evaluate the opportunities offered by each, match them to the needs inventory, and prepare an approach for those selected.

Lastly, it has been an honor to have been involved with the WFN up to now and to have been nominated for president by the Australian and New Zealand Association of Neurologists and supported by the Japanese Society of Neurologists. Please see below a list of positions held and papers written for the WFN supporting my candidature.

**Professional Experience**

**General**

1988-1996 & 2001-2014 Head, Department of Neurology, Sir Charles Gairdner Hospital, Perth, Western Australia

1992-2001 President and counselor, ANZAN

1996-2004 Neurology editor, Journal of Internal Medicine

1998-2014 Chair, Multiple Sclerosis Australia Research Management Council

2003-Present editor (Asia and Pacific), Multiple Sclerosis Journal

2007-Present vice president, Pan-Asian Committee for the Treatment, Research, and Investigation of Multiple Sclerosis (PACTRIMS)

2008-2012 Vice president, Asian and Oceanian Association of Neurologists (AOAN)

2012 Western Australian of the Year – Business and Professions

2016-Present board member, European Charcot Foundation

2016-Present honorary member, Chilean Society of Neurology, Psychiatry, and Neurosurgery

**World Federation of Neurology**

2001-2006 Elected trustee of the World Federation of Neurology

2005 President, XVIII World Congress of Neurology in Sydney, Australia

2005-2009 Chair, WFN Fundraising Committee

2009-2013 Chair, WFN Membership Committee

2009-2013 Member, Congress (Supervisory) Committee

2013-Present Chair, Global Neurology Network

2014-Present Chair, Congress Committee

2014-Present First vice president, WFN

**Papers**

2006 Fundraising for the WFN

2010 Fairness in the WFN

2013-Present Chair, Global Neurology Network

2014-Present First vice president, WFN

2017 The Need for a Global Alliance in Neurology

**Associate Work**

2003-Present editor (Asia and Pacific), Multiple Sclerosis Journal

2007-Present vice president, Pan-Asian Committee for the Treatment, Research, and Investigation of Multiple Sclerosis (PACTRIMS)

2008-2012 Vice president, Asian and Oceanian Association of Neurologists (AOAN)

2012 Western Australian of the Year – Business and Professions

2016-Present board member, European Charcot Foundation

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**Papers**

2006 Fundraising for the WFN

2010 Fairness in the WFN

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2014-Present First vice president, WFN

2017 The Need for a Global Alliance in Neurology
First Vice President
Ryuji Kaji MD, PhD
Professor of Neurology
Tokushima University
Japan

Goals and Objectives: Synergy, Communication, and Autonomy

Working as chair of Asia Initiative, I have realized that, like Asia, many developing regions of the world are exploding in population, and the accelerated aging will bring neurological disorders such as stroke and Alzheimer’s disease to the forefront. We need to increase awareness of stroke prevention worldwide and to provide the survivors a means to regain their functional independence.

Through my activities in WFN, I have learned how to coordinate meetings and sessions with other international organizations— to achieve common goals of providing educational opportunities for young neurologists. Having served for IFCN and MDS, I feel myself capable of pursuing this interdisciplinary approach of synergy in promoting the cause of WFN.

A Filipino neurologist, who trained with us in Tokushima, drew our attention to Lubag disease, an endemic dystonia parkinsonism, or XDP, in her hometown. We collaborated with local neurologists to describe specific pathological findings and to identify its causative gene, which should help find a cure for those patients.

Through this experience, I believe that the same approach of communication, collaboration, and compromise should work well in other parts of the world. All of the efforts must respect developing regions and their neurologists as equal partners.

Many young neurologists from developing countries still find it difficult to attend global meetings such as AAN or EAN. I would like to work to make all regional meetings equally attractive for young neurologists, particularly as it relates to education. This principle of autonomy, in turn, should strengthen the value of WFN, especially in the rapidly growing areas such as Arab Africa and Latin America.

If I am elected first vice president, I will work with all my might to assist the new president to fulfill the mission of the WFN. I would also advise the president how to incorporate the successful Asian experience more globally to the other regions of the world.

I wish to take this opportunity to thank many national societies, which have already endorsed my nomination as first vice president, and hope that others will also be able to support my candidacy. Together, we can improve patient care through education of neurologists regardless of their place of practice.

First Vice President
Prof. Renato J. Verdugo, MD
Chile

The Chilean Society of Neurology and the Panamerican Federation of Neurological Societies have honored me with a candidacy for the position of first vice president of the World Federation of Neurology (WFN). Although Latin Americans have actively participated in the WFN since its foundation, we have never had the opportunity to serve in a senior position within the federation.

During the last presidencies of the WFN, there has been a successful effort to expand WFN activities in regions such as Africa, Central Asia, parts of Eastern Europe, and Southeast Asia. As part of this initiative, the Panamerican Federation of Neurological Societies was finally launched, after years of hard work. I had the opportunity to participate in the creation of this federation, acting as its first vice president during the entire process of formation and registration. In this context of global expansion of the WFN, it would be important to ensure fair representation of the different active regions in its directive by incorporating a representative from Latin America.

For more than 10 years, I have been involved in the activities of the WFN, initially organizing the Panamerican Congresses of Neurology, then as a representative of Chile, and finally as president of the World Congress of Neurology in Santiago in 2015 and the launch of the Panamerican Federation of Neurological Societies, in 2016 and 2017. In these activities, I have always worked on a team with different members of the WFN, whose invaluable advice and support have always been fundamental for the success of these enterprises. The position of vice president is a key part of this teamwork, as he or she needs to interact with the president and different members of the board, as well as the representatives of different regions and countries. He or she must act as supervisor and collaborator of the organization of the World Congress of Neurology every other year, among other concrete tasks.

After almost four years in a fellowship on peripheral nerve disorders in the United States, and later visiting different academic centers in Latin America, I have had the opportunity to know the reality of neurology in developed and developing countries; this is essential to serve in a global federation that must be effective in supporting the development of neurology throughout the world. As a member of the editorial board of the Neuro muscular Cochrane review group and member at large of the International Federation of Clinical Neurophysiology, I have had the opportunity to work with professionals coming from different latitudes and backgrounds, establishing permanent and fruitful links among them.

The integration of neurologists from all over the world requires a strengthening of the digital media made available by the WFN, making wise use of the multiple opportunities provided by the internet and social networks. To increase the attractiveness of the WFN to young neurologists, it is important to develop channels of timely information through our website and the creation of Twitter and Facebook accounts, as well as a YouTube channel. These are resources of information widely used by younger generations; our federation could take advantage of them to reach a wider audience. Furthermore, it is necessary to create a special group for horizon scanning on this topic, to keep the WFN always updated on the use of new and always growing technologies.

Social networks are also a valuable tool to reach patients and the general public that may benefit from proper information and orientation in neurology and related disciplines.

Ethical issues are of growing concern in the medical sciences in general, and in neurology in particular. The WFN must be a reference on this subject, taking advantage of the numerous experts who come together in its different activities and may produce orientations and consensus in this field.

It is also important to continue to strengthen the interaction of the WFN with other scientific and medical societies in related fields, such as the continued collaboration with the WHO, which would allow us to channel our expertise and experience in the different topics that are important for the worldwide development of neurology.

The WFN is our shared home, and it needs the continuous work of neurologists from the entire world. If I am elected as vice president, I will be a faithful servant to this goal. If not, I will continue collaborating with the elected directive as I have done for the last 10 years.
Zika Virus Update

Report of the WFN Task Force

BY JOHN D. ENGLAND, MD

Government and health officials met June 20–23 in Tegucigalpa, Honduras, to discuss the current global situation regarding the Zika virus and the current situation in the Americas.

Participating were representatives from the Pan American Health Organization (PAHO), UNICEF, Universidad Nacional Autónoma de Honduras (UNAH), the World Health Organization (WHO), and the WFN. They met with government officials from Honduras, health care professionals, public health officials from other countries in Central America, South America, and the Caribbean, and dignitaries from the French government.

Three members of the WFN Task Force on Zika (Dr. Tarun Dua from the WHO, Dr. Marco Medina from UNAH, and I) attended the meeting. The specific countries that were represented at the meeting were Costa Rica, the Dominican Republic, El Salvador, Guatemala, Honduras, Nicaragua, and Paraguay.

A large part of the meeting was devoted to developing proactive programs and the dissemination of measures for the care and support of people and families affected by complications associated with the Zika virus.

Speakers and the other participants re-emphasized that the major complications of the Zika virus infection are the congenital Zika virus syndrome and Guillain-Barre syndrome. However, it was noted that other neurological complications, such as meningoencephalitis, myelitis, and sensory polyneuropathies, have also been reported.

Although the Zika virus does not appear to be spreading as aggressively as in previous years, the virus is still infecting large population segments in the affected regions. The WHO estimates that nearly 100 million people, and more than 1 million pregnant women in the Americas, could be infected, suggesting that tens of thousands of children may have the congenital Zika virus syndrome.

Pilot Programs

As more cases of the Zika virus infection emerge, there is a great need to strengthen health systems to enhance surveillance and to provide improved care and programs in the affected countries. The Honduran government, in association with the Institut Francais, PAHO, UNAH, UNICEF, the WHO, and the WFN, has stepped to the forefront of these efforts to institute pilot programs to help patients and families.

Health care representatives from other Central American countries also are interested in joining these efforts.

The WHO help is central to the success of these efforts. Much work has already been done by the WHO to provide the information and tools that are necessary to provide a systems approach to fulfill these goals. A major part of the meeting in Honduras centered on discussions about the WHO Toolkit for the care and support of people affected by complications associated with the Zika virus.

The toolkit serves as a blueprint to enhance country and health care systems’ preparedness for Zika virus outbreaks and its complications. The WHO Toolkit consists of three manuals, each with several modules. There are separate manuals for public health planners and managers, health care professionals, and community workers. All participants agreed that the general principles outlined in the toolkit would help in developing comprehensive care and psychosocial support mechanisms for people affected by the Zika virus. There also was recognition and consensus that the toolkit would have to be adapted to fit the unique national and regional needs and context prior to formal implementation.

Participants pledged to plan future meetings and collaboration with health ministers and government officials from their respective countries and regions with the goal of instituting as many of the recommendations as possible. All participants recognize that governmental and health care system commitments and financial support are necessary to ensure the success of these efforts.

There also is hope that providing the resources and infrastructure for patients affected by the complications of the Zika virus will serve as a model for providing care and support of patients affected by other diseases in these countries and regions.

All of the participating organizations, including the WFN, pledged continuing support of these important goals in global health. Only by working together will there be success in these areas of public health.

John D. England, MD, is the chair of the WFN Task Force on Zika. He also is editor-in-chief of the Journal of the Neurological Sciences.
Practical Neurology in Moshi, Tanzania

Initiative aims to train 200 neurologists in Africa in the next 10 years

BY WILLIAM P. HOWLETT, MARIEKE DEKKER, AND SARAH URASA (KCMC)

In August 2015, the African Academy of Neurology (AfAN) was formed in Dakar, Senegal, and became the final regional member of the World Federation of Neurology (WFN). This membership is proving to be an important stimulus to neurology education and training in Africa.

A subsequent meeting of AfAN and regional members of the WFN, which took place at the World Congress of Neurology in November 2015 in Santiago, Chile, adopted a resolution to promote the training of 200 neurologists in Africa within the following 10 years.

Since then, in order to achieve this goal, a number of initiatives have taken place in Africa. One such initiative involves the East African Development Bank (EADB), an organization that currently includes four countries: Kenya, Rwanda, Tanzania, and Uganda. It involves funding a Medical Training and Fellowship (METAF) program, which is designed to support the neglected fields of neurology and oncology in East Africa.

The neurology program includes support for one- to two-year training fellowships in the U.K. for African neurology trainees and support for local training in neurology within East Africa.

Partnership

The METAF program is planned in collaboration with local organizing partners and involves teaching hospitals and universities in East Africa and the Royal College of Physicians London (RCP) supported by representatives from the Association of British Neurologists (ABN) and managed by the British Council. Postgraduate doctors either training in internal medicine or pediatrics, or those recently graduated, are their target audience. The aim is to increase knowledge and awareness of neurology in Africa and to promote training in neurology, ranging from primary care to specialist neurologists.

To facilitate the implementation of METAF locally, adjacent countries—Tanzania/Kenya and Uganda/Rwanda—were paired into two groups with a series of two five-day courses planned per year, alternating between the host countries within each group. The setup was planned to continue for four years. Members of the teaching faculty for each course are chosen from the two host countries, with visiting lecturers from the U.K.

The first series of these courses took place in September 2016 in Nairobi, Kenya, and Kampala, Uganda. A total of 34 trainees participated. The third course took place April 3-7 in Moshi in Northern Tanzania. It was attended by 20 trainees.

Practical Neurology Theme

The venue in Moshi was a local hotel with conference facilities. The theme of the Moshi course was “Practical Neurology,” with a comprehensive but practical review of the main neurological disorders experienced in Africa occurring in all ages. It also included a hands-on neurological examination. The course started and finished with a short pre- and post-training assessment. The covered topics ranged from infections—including HIV—to epilepsy, stroke, paraplegia, neuropathy, movement disorders, dementia, head injury, cerebral palsy, and genetic diseases. Interspersed between formal lectures were teaching video sessions and case presentations by the participants.

The course highlighted some important aspects for future neurology training in Africa. First, it is a practical example of a global AfAN/WFN initiative, which is funded from within Africa, supporting sustainability in the longer term. Second, it has resulted in North/South collaboration with neurologists/lecturers from within Africa and the U.K. coming together for the first time, all with the aim of teaching and training neurology in Africa. Third, the importance of participatory teaching methodology was underlined by the shared interest and excitement shown by the trainees, in particular with their case presentations and group discussions.

Ophthalmoscopy Exams

An example of instant success was the provision of an affordable, handy, lightweight, easily rechargeable Arclight Ophthalmoscope free to everyone in the course, including teachers. This was introduced by David Nicholl, ABN honorary secretary. The candidates in the course were instructed on how to use the Arclight. The effect was palpable electric as they started to learn a practical skill and realized they could carry out funduscopic examinations upon returning to their workplaces across Tanzania.

The course is just one of a number of ongoing initiatives aimed at developing neurology training in Africa. In the past five years, the Eastern African region has seen some significant developments, with adult and pediatric neurologists from the East African Community (EAC) countries of Burundi, Kenya, Rwanda, Tanzania, and Uganda joining forces professionally. The aim is to facilitate specialist neurology training for EAC doctors within Africa to make the region less dependent on external training facilities. This was supported by grants-in-aid from the WFN.

Tanzania has a population of 53 million and only seven practicing neurologists, and has huge unmet needs in neurology. One author (Dr. Howlett) has worked at Kilimanjaro Christian Medical Center (KCMC) in Northern Tanzania for over 30 years. He has experienced the start of neurology teaching/training of assistant medical officers followed by undergraduates, later postgraduates, and the training of one specialist in neurology. The same changes are happening all over Africa today. The historical post-colonial gap in neurology teaching/training and skills in Africa is well known; this neurology teaching course is another small step toward closing that gap.

The authors are with the Kilimanjaro Christian Medical Center.

Group photo of course trainees, lecturers, and organizers.

Trainee using an Arclight ophthalmoscope in the workplace.
Program Highlights
- Over 30 Teaching Courses
- Tournament of the Minds
- WFN Medals Presentation and Presidential Symposium
- Regional Symposium
- Sponsored Symposium

Awards & Lectures
- Elsevier Young Investigators Award
- Soriano Award Lecture
- Fulton Award Lecture
- Masland Award Lecture
- Singhal Award Lecture

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