The Need for World Congresses

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

By Raad Shakir, MD

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.
PRESIDENT’S COLUMN
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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 neuroscience in specific fields. Scientists may not have the funds to attend big international jamborees as their travel funds come from grants that rightly limit their ability to 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 general 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 a 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, governments will forbid pharmaceutical company sponsorships within the same country. As an example, if a meeting on a specific topic is being organized in a certain city, only neurologists from that city and not from other parts of the country, let alone internationally, can be sponsored to attend.

Presentations in pharmaceutical industry-sponsored meetings and symposia are primarily viewed as being at least partially one-sided. The majority of speakers declare their financial interests and do their best to provide non-biased views in their presentations. However, we cannot escape the fact that neurological public opinion tends to take the presentations with a pinch of salt. Even at major international congresses, sponsored symposia are separated from the main themes of the congress and portray a different point of view.

We have to remember another issue of funding congress attendance. 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 convener 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 attendee 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.
WFN JUNIOR TRAVELING FELLOWSHIP AWARD RECIPIENT

A Report on a Visit to Sleep 2017 in Boston

BY OLUWATOSIN OLORUNMOTENI

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, Conversation 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 rainfall, I was able to visit downtown Boston during the week. I also joined SRS trainees for a time out at the kickoff 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 is from Obafemi Awolowo University in ILE-IFE, Nigeria.

Report of the Department Visit Program to Turkey

Experience to help improve treatment options in Cameroon

BY DR. LEONARD NGARKA

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. Serefnur Öztürk, 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. Öztürk, who presented the service. I was handed a detailed program for my stay there. Each working day ran from 9 a.m. to 5 p.m., with a break between noon and 1:30 p.m.

During the four weeks, I spent each day from 9 a.m. to noon 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 Ekmekci. 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.
Prof. Franz Gerstenbrand (1924-2017)

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

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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 (Psychiatrich-Neurolgische Universität-Klinik Wien), chaired 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 subspecialities within neurology. In the following 18 years, he helped initiate numerous subspecialities, 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 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 founded 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 Valery Gagarin Medal of the Russian space organization, and several of the most prestigious medals in Austria.

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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 founded by the European Academy of Neurology.

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Franz Gerstenbrand months before becoming a medical student in Vienna.

As specialist with his teacher, Prof. Hans Hoff.
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.

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Academy of Neurology under the aegis of the WFN. Dr. R. S. Wadia served as the organizing president, while Dr. Chandrashekhar Meshram was the organizing secretary. The conference, dedicated to Prof. Noshir H. Wadia, was inaugurated by WFN President Dr. Raad Shakir.

The 2017 Conference

The last credible meeting on tropical neurology was held in the mid-1990s. The organizers were mindful of the over 20 year gap. Nevertheless, the congress was an outstanding success. Attended by nearly 1,000 delegates, with 46 speakers eminent from Austria, Brazil, Honduras, India, Malaysia, Peru, Sri Lanka, South Africa, Tanzania, U.K., U.S., and Vietnam, the congress has completely filled the long gap. The topics discussed included neurology of common infections, cerebral malaria, Ebola virus, konzo, sarcocystosis, nodding syndrome, rabies, Zika virus, and bacterial meningitis, among others. Debate, CPC, neuroradiology, and neuropathology sessions were also part of the scientific program. There were standalone symposia on central nervous system tuberculosis, the neurology of HIV, encephalitis, poisoning, and neurocytosis. Seventy-nine papers were presented. Dr. Shakir highlighted the role of the WFN in training and education in the developing world.

Not only did the congress prove to be an academic bestseller, it achieved what could be, as well as what could not be, accomplished in the 20-year gap: reigniting a flame of interest in tropical and geographical neurology and resurgence of the WFN Research Group on Tropical Neurology. The research group was revived with Dr. Meshram, president, and Dr. Amilton Barreira, secretary general, in leadership roles.

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.

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.
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 ways, and the post-World War II generations in East and West took different courses. By the 1980s, both sides had become interested and joined the society. Over the years, as international contacts and exchange possibilities multiplied, the associations alternating between the two countries took place, and informal fellowships and exchange became national and international key figures.

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 his doctoral thesis.

In consequence, a visit of a group of neurologists from northern Germany was organized in February 1991. They met with a group of leading Russian neurologists and their disciples for a seminar, which was held in Moscow and Yaroslavl, Russia. It became an unforgettable experience for all participants. Transportation, lodgings, translations, and meeting facilities, including something as unusual as at the time as video demonstrations, needed a lot of improvisation.

All difficulties were overcome by the local organizers, and the hospitality was overwhelming. There was great mutual curiosity about the methods and traditions that had developed, and time set aside for discussion was never sufficient. Thus, the last papers were delivered and discussed on the bus, as all drove back together to Moscow through the white winter landscape. It was one of the occasions where enduring friendships arise among people who until then had been foreigners to each other.

Both sides expressed a strong interest in establishing a platform for future exchange and meetings. Also, in the German group, many were strongly aware of Nazi Germany’s barbarous actions, especially in Eastern Europe. The German group found it their duty to be the first to reach out to Russian colleagues and integrate them into the common European agenda. When in 1992 the Russian group was received in Germany for a second scientific encounter, the association was founded and registered in Germany, where it also came to function as a 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 Florianópolis, 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

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 promotion of 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 Alainy 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

From the history course at the American Academy of Neurology Annual Meeting

BY PETER J. KOEHLER

The term eponym is derived from the Greek words epi- "sur-" and onoma "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, ampere, ohm, joule). The French "préférer" (prefect) 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 Isle of Elba in 1815 (chauvinism)! A Dutch author estimated the number of eponyms in everyday language at 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, and, not without difficulties, the content of textbooks, 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 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. The arguments 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 (Horner’s syndrome). It is also referred to as Klumpke’s paralysis. (The paper was presented by Jennifer McKinney)

In his monograph on reflexes, Robert Wartenberg wrote that following the discovery by Joseph Babinski of the extensor plantar reflex, Wartenberg wrote about a plethora of discovered reflexes.
Pierre Marie. She published on many subjects, the most important being post-encephalitic syndromes, which was also the subject of her 1922 thesis, and neuro-oncology, a subject she worked on when employed at the Paul-Brousse hospital that became an oncology center. The eponym refers to a familial disease with gait problems, areflexia, and clubfoot (dystase areflexe héréditaire), today known to be caused either by a mutation in the PMP22 gene or the MPZ gene (as in the original family).11 Lévy died at age 48 from the disease that she had studied: a brain tumor or a post-encephalitic syndrome? (The paper was presented by Peter J. Koehler.)

Louis-Bar Syndrome (ataxia telangiectasia)/Denise Louis-Bar
Denise Louis-Bar (originally Bar, she married civil engineer F. Louis) published (in French) a case of this multisystem disease (ataxia, ocular-cutaneous telangiectases, and immune deficiency) at age 27 (1941).16 Born in Liège, Belgium, she studied medicine in Brussels and trained under Ludo van Bogart, with whom she studied the first case in Anwerp. Rodier and Sedgwick published on eight children from five families in recognizing the hereditary character (1958).17 Louis-Bar later worked at the internal medicine department in Liège and was known there as “la rousse medical” (the medical red-haired). (The paper was presented by Elisabeth A. Coon.)

Hurler Syndrome / Gertrud Hurler
Gertrud Hurler was born in 1889 in Rastenburg, Prussia, and went to medical school in Munich. She trained as a pediatrian under Menhard von Pflander. She was given the cases of two brothers with dysmorphic features to study and describe. In addition, the children had developmental delays and clouded cornes. She recognized the hypotonia, cognitive impairment, short stature, macrocephaly, scaphocephaly, delayed anterior fontanelle closure, course facial features with prominent facial hair as well as the hepatopelvis-neomegaly. Hurler published her paper in 1919.18 Despite a subsequent paper on the subject in 1920 by Von Pflander,19 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.”20 Frederick Parkes Weber (1863-1962), who was present at the meeting, concurred with the diagnosis of “gargoylism.” (The paper was presented by Margie Ream.)

Frey’s Syndrome / Lucia Frey
Following injury of the auriculotemporal nerve (for example, by parotid gland surgery; gunshot injury in the shoulder) the patient may develop inappropriate regeneration and result in gustatory sweating (Frey’s syndrome). Lucia Frey was born in 1889 in Lvov, Poland. She attended medical school in the same city and following graduation, she worked under Kazimierz Orezewski. She presented on the syndrome of the auriculotemporal nerve in Warsaw (1923) and published it on in a Polish as well as a French (Revue Neurologique) journal.21 She published a large number of papers on various subjects. During the German occupation, she worked at the Lév Ghetto Polyclinic and was killed in 1942. (The paper was presented by Stephen G. Rech.)

Canavan Disease / Myrtle May Canavan
Born in 1879 near St. Johns, Michigan, Myrtle 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 the University of Pennsylvania and curator of the Warren Anatomical Museum at Harvard Medical School. She described the disease to which her name became attached in 1931,22 and it is now known to be an autosomal recessive neurodegenerative disease caused by a mutation in the ASPA gene resulting in aspartoacylase deficiency. Canavan described Parkinson’s disease in 1933. (The paper was presented by Lenora Lehwald.)

References
1. This paper is based on the Introduction of the 2008 AAN History Course “Eponyms in Neurology” (by PJK) and the 2017 AAN History Course “Eponymous Women in Neurology”.
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 have 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. Not only its mission, “to foster quality neurology and brain health worldwide,” but its sense of fairness and service. It is a sense that sits comfortably with a well-known Australian trait of “a fair go for all.”

The WFN is an organization with relatively limited financial resources, yet its mission is broad and seemingly endless. Its annual spending on operating costs, infrastructure, and personnel comprises almost half of its average annual income. Its permanent staff number is only 2.5 FTE, but it is ably assisted by the 140 members of its 15 committees. With member societies, the regional organizations, and the quality of successive administrations, the WFN is forging a role as a global advocate and neurology educator.

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

- William M. Carroll, MB BS, MD, FRACP, FRCPEI

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 2019, 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.

The WFN must engage in patient-related issues such as patient advocacy, long-term, and palliative care.

- Prof. Dr. Wolfgang Grisold
CARROLL
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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 general formulated 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 neurology organizations, the AAN and the EAN, and with global government, nongovernment, and regional intergovernmental 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


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 2010 Fundraising for the WFN 2014-Present Chair, WFN

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to reduce the treatment gap for neurological patients. This agenda entails the following concrete steps:

• Education on all levels will be an important goal. I will continue the present efforts, such as the Junior Traveling Fellowships, grants, joint courses with other societies such as the EAN, and Continuum with the AAN. The WFN has successfully implemented Department Visits and Training Centers. The three Teaching Centers in Africa and one in Mexico were important steps, which will increasingly need more support for trainees. I believe that the Teaching Center concept will need to spread to Asia.

• The establishment of WFN educational standards of training and assessment will be helpful in countries with a developing neurological society. The focus will continue to be placed on educational activities for countries in need.

• Communication is one of the most important tasks in global societies. The website and social media have greatly improved and will continue to be the backbone of the WFN communication.

• The existing publications, such as the JNS, eNS and, the newsletter World Neurology will continue to play an important role in communicating the WFN’s aims, messages, and achievements.

• Another good example of successful communication is World Brain Day, which is an excellent yearly presentation of neurology worldwide.

Furthermore, I will support the development of new tools, such as a globally accessible e-learning platform for neurologists.

To ensure the continuation of administration, I find it important to collaborate with experienced persons from the present and past administrations to help with advice and action. As a concrete step, I suggest to modify the present change of administration by nominating a president-elect in advance and keeping the past president for another year. I believe that this step is crucial to maintain continuation in such a large and globally involved organization as the WFN.

Furthermore, I will aim to have organizational advisers who have experience with charity work, and also plan to implement a patient’s voice in the WFN leadership.

One important activity of the WFN is the biennial WCN congress, which rotates from region to region. This mission is aimed to foster and support the African, South American, and Asian regions, and support the presence and activities of neurology in regions in need. I am committed to this principle of rotation so that different regions will benefit from the WCN congresses.

Of course, besides these points, there are a number of other aspects that will play an important role. The WFN must engage in patient-related issues such as patient advocacy, long-term, and palliative care. I will make these tasks a future mission. Furthermore, in order to realize projects and ensure a smooth administration, the WFN will require financial resources. Thus, there might be the need for new strategic cooperations and alliances.

To summarize, as a president of the WFN, I would like to continue successful projects and cooperations. At the same time, I would encourage new developments and cooperations with member societies and neurologists all around the world, where I will place special attention on communication, education, and partnership.

In doing so, I will emphasize strategic project management and empowering leadership across the network of the WFN. This, in turn, would be grounded in transparency and a multidisciplinary and multiprofessional approach.

I am confident that the insights I gained at the WFN will provide strong grounds for succeeding in my mission. I would be grateful for your support.

Selcuk University Faculty of Medicine, Neurology Department team, including all staff in front of the Neurology Department (in-patient service).
A nominee by the Japanese Society of Neurology, I would like to stand for the office of the first vice president at the election.

Background
I graduated from Kyoto University in 1979 and pursued a specialty training in neurology. After completing a PhD course in Kyoto, I moved to Philadelphia in 1984 as a clinical fellow at the University of Pennsylvania, where I became interested in clinical neurophysiology. In the U.S., I met Dr. Jun Kimura, then professor of neurology in Iowa, and we returned to our alma mater together in 1989. Working in his department, I first reported the use of IVlg for multifocal motor neuropathy in 1992, and introduced the use of botulinum toxin for dystonia, which initiated my career in movement disorders.

In 2000, I left Kyoto to chair the newly established Department of Neurology in Tokushima. Thanks to my talented colleagues, I have stayed active in my academic career, publishing more than 500 papers in reputable journals such as Annals of Neurology, Brain, Nature, and New England Journal of Medicine. Our group has discovered two new genes, OPTN and TFG, causing ALS, and another, TAF1, responsible for dystonia.

International Activities
In 2000–2006, I served as an executive member of the International Federation of Clinical Neurophysiology (IFCN). I planned and led the Movement Disorder Society (MDS). After completing a PhD course in Kyoto, I graduated from Kyoto University in 1979 and pursued a specialty training in neurology. In the U.S., I met Dr. Jun Kimura, then professor of neurology in Iowa, and we returned to our alma mater together in 1989. Working in his department, I first reported the use of IVlg for multifocal motor neuropathy in 1992, and introduced the use of botulinum toxin for dystonia, which initiated my career in movement disorders.

WFN Activities
I served the WFN as an elected trustee from 2007 to 2013. Since 2010, I have chaired the newly formed Asia Initiative to promote awareness of 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.

Through 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 Pan-American 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 sources 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 Autonoma 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 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 (AAN) 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 AAN 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 UK.

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 AAN/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 palpably 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.
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