





Experiencia de Honduras:Creación de una base de datos epidemiológicos

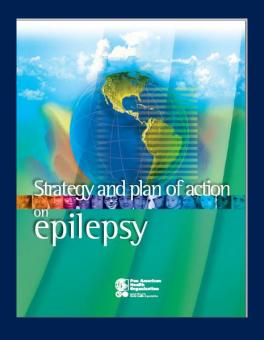
Prof. Lazaro Molina
Prof. Marco T Medina
Universidad Nacional Autonoma
de Honduras







PAHO STRATEGY AND PLAN OF ACTION ON EPILEPSY





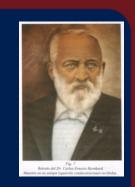
HONDURAS is a Low middle income country (World Bank) of 8 million people







National Autonomous University of Honduras School of Medical Sciences



 Honduras founded the School of Medical Sciences in 1882 at the National Autonomous University of Honduras (UNAH).



A Joint project of Neurologists in Honduras and the WFN

 The UNAH Universitary Council approved the progam in October 29th, 1998



Journal of the Neurological Sciences 253 (2007) 7-17



www.elsevier.com/locate/jns

Developing a neurology training program in Honduras: A joint project of neurologists in Honduras and the World Federation of Neurology

Marco T. Medina a,b,*, Theodore Munsat a, Alberto Portera-Sánchez a, Reyna M. Durón b, Carrie A. Becker a, Kenton R. Holden a

The WFN Education Committee

Education Committee, World Federation of Neurology, Honduras
 Honduras Neurology Training Program, National Autonomous University of Honduras, Tegucigalpa, Honduras

Received 14 June 2006; accepted 28 July 2006 Available online 22 December 2006

Formación de Neurólogos y Epileptólogos WFN



Contacts

World Federation of Neurolog

WFN - A non-governmental organization in association with the World Health Organizati



Neurology Training Programme - Honduras

Some of the files below were originally in MS PowerPoint format but since they were quite big in size it was decided to convert them to a more adequate size and format (Adobe .PDF). Despite the conversion, the quality of the presentations was not compromised.

- Guidelines for Neurology Training Programmes New (added on Nov 12) [156KB]
- Honduras Neurology Training Programme Report 2005

August 21, 2

WFN Highli World Neurology 2008 issue

Huntington's Dise annual report (ac Feb 11)

Guidelines for Ne Training Progran (added on Nov 1:

Neurologic Conse of Malnutrition -WFN/Demos title

10 · WORLD NEUROLOGY

WWW.WFNEUROLOGY.ORG • AUGUST 2010

Honduras Pilots WFN Training Program in Latin America



BY MARCO T. MEDINA, M.D., AND THEODORE MUNSAT, M.D.

WFN Education Committee

Prof. Medina (left) is dean of the School of Medical Sciences at the National Autonomous University of Honduras, Tegucigalpa.

Prof. Munsat (right) is professor emeritus, Tufts University, Boston.



tient care and promoted research in the neurosciences.

The training program provided a valuable model that could be adapted and applied to other developing countries in the region with similar needs for neurological care.

The neurology department at the National Autonomous University of Honduras, Tegucigalpa, is considered one of the best in Central America, and every sues, review cases, and examine how practice might differ in their respective countries. The president of the national neurological society in each country appoints a WFN education coordinator who distributes the courses and arranges the discussion groups. Participants have to submit an evaluation form and belong to a national society if they wish to receive a certificate.

Cantinuity Takes Hald

Honduras World Federation of Neurology Certification



WORLD FEDERATION OF NEUROLOGY

A non-governmental organisation in association with the World Health Organization

DOCUMENT OF CERTIFICATION

The World Federation of Neurology hereby confirms that the Honduras Neurology Training program (National Autonomous University of Honduras), having been formally evaluated by WFN representatives, meets the appropriately high standards set by this organization.

Shan () Was

Johan A. Aarli, President, World Federation of Neurology

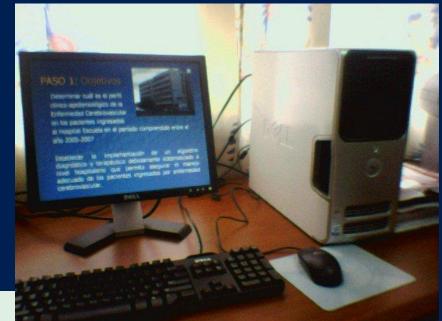
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Theodore L. Munsat, Chair, WFN Education Committee

HONDURAS NEUROLOGY TRAINING PROGRAM AND ILAE

- 1. ILAE Honduras Chapter Since 1994
- 2. Since 1998 new neurologists trained in Honduras currently represent 50% of the Hondurans neurologists. One of the most significant consequences of the Neurology Training Program in Honduras has been this improvement in the neurologist population ratio by 35% from 1:325,000 to approximately 1:230,000 between 1998 and 2012. Four Epileptologists and nine child neurologists

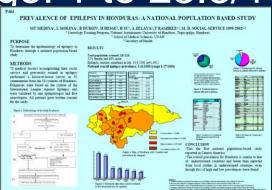






Background: Epidemiological Studies in Honduras

- A 1999-2000 National Population based epilepsy prevalence study of 135,035 inhabitants
- Mean National Epilepsy Prevalence of 6.63/1000.Incidence 104 x 100.000
- Range: 1 to 23.3/1000



(%) 8 Nr. 1.2.3 Entero-Diciembre, 2003.

PREVALENCIA E INCIDENCIA DE LAS EPILEPSIAS EN HONDURAS

PREVALENCE AND INCIDENCE OF THE EPILEPSIES IN HONDURAS

Lázaro Molina-Cruz*, Marco Tulio Medina-Hernández*

RESUMEN OBJETIVO Dereminet la prepulsacia del su elementa en el commenda de
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cinero al Centro de Stadal Ical. Se accisporo
prevalencia de epidencia activa en
provincia de la Centro de Stadal Ical. Se accisporo
prevalencia de epidencia activa (15.055), 52%
finamanio y 48% amacilha, 85% epidencia
personal
portugidad de Centro (15.055), 52%
finamanio y 48% amacilha, 85% epidencia
epidencia por
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promedio en las 20 comunidades fue de 104 por 100,000. CONCLUSIÓN. Tasa global de epilepsia 6.63X1000 (rango 1.0 - 23.3x1000). Según datos en pacientes epilépticos los factores asociados son parvasubles.

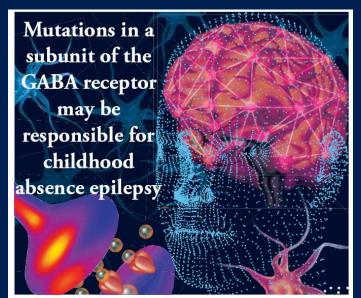
PALABRAS CLAVE: Epilepsia, e

ABSTRACT, OBECUTYE To determine the ABSTRACT, OBECUTYE To determine the first institute of the incidence of the observation. MATERIAL AND METHODS. The extinents of the incidence to the individual own and public hardward incidence, based on criteria of the International Learne content Engine (ILLEL) 1935-1912 was crossed insuse by longer threat to incidence, based on criteria of the International Learne content Engine (ILLEL) 1935-1912 in State of the International Learne content Engine (ILLEL) 1935-1912 in State of the International Learne Content of Cont

* Postgrado de Neurologia, Universidad Nacional Autónomo de Hendurus, (VNAH

- Molina L, Medina MT. Prevalencia e Incidencia de la Epilepsia en Honduras. Rev Postgrado UNAH 2003.
- Medina MT, Molina L, Durón R, et al. Prevalence of the Epilepsies in Honduras. A National Population-Based Study. Epilepsia 2003;44(Suppl.8):155. International Epilepsy Conference, Lisbon, 2003

Basic Research/Genetic Epidemiology on Childhood Absence Epilepsy and Juvenile Myoclonic epilepsy genes (NIH Supported)



Please cite this article in press as: Tanaka et al., Hyperglycosylation and Reduced GABA Currents of Mutated GABRB3 Polypeptide in Remit ting Childhood Absence..., The American Journal of Human Genetics (2008), doi:10.1016/j.ajhg.2008.04.020

ARTICLE

Hyperglycosylation and Reduced GABA Currents of Mutated GABRB3 Polypeptide in Remitting Childhood Absence Epilepsy

Miyabi Tanaka, 1,2,14 Richard W. Olsen, 1,14 Marco T. Medina, 4 Emily Schwartz, 5 Maria Elisa Alonso, 6 Reyna M. Duron,^{2,4} Ramon Castro-Ortega,⁷ Iris E. Martinez-Juarez,^{2,6} Ignacio Pascual-Castroviejo,⁸ Jesus Machado-Salas,² Rene Silva,⁹ Julia N. Bailey,^{2,10} Dongsheng Bai,² Adriana Ochoa,⁶ Aurelio Jara-Prado, Gregorio Pineda, Robert L. Macdonald, 11,12,13 and Antonio V. Delgado-Escueta 2,3,*

Childhood absence epilepsy (CAE) accounts for 10% to 12% of epilepsy in children under 16 years of age. We screened for mutations in the GABA, receptor (GABAR) 83 subunit gene (GABRB3) in 48 probands and families with remitting CAE. We found that four out of 48 families (8%) had mutations in GABRB3. One heterozygous missense mutation (P11S) in exon 1a segregated with four CAE-affected persons in one multiplex, two-generation Mexican family. P11S was also found in a singleton from Mexico. Another heterozygous missense mutation (S15F) was present in a singleton from Honduras. An exon 2 heterozygous missense mutation (G32R) was present in two CAEaffected persons and two persons affected with EEG-recorded spike and/or sharp wave in a two-generation Honduran family. All muta-

Tanaka M, Olsen RW, Medina MT, et al Am J Hum Genet. 2008

- Suzuki et al Nature Genetics 2004
- Medina et al Neurology 2008

Novel mutations in Myoclonin1/EFHC1

in sporadic and familial juvenile myoclonic epilepsy

ha GENESS Consortium damonstrated four missense n no some 6p12.1 segregating in 20% of Hispanic familie Objective: To examine what percentage of consecutive JME clinic can

Japan using heteroduplex analysis and direct sequencing.

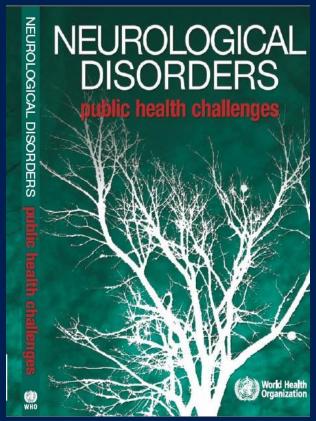
Japan using historispias analysis and direct sequencing. Beaulist We found the novel metations in manuscipts A and B of Myoclonics. Beaulist We found the novel metations in manuscipts A and c.15265-6) in term cound in both a singlestin from Metatic can dombut analysist not happen. A die white Countries will be an analysis of the countries of the countries of the countries of white Countries will be a second to the countries of the countries of the countries of seven september 185 different embets or a large Mendane tarrily. The annu-cess was explicated to the countries of the countries o three-base deletion (-364*-362del.GAT) in the promoter region in a family from Japa

Javenile myodosic epilepsy (JME) is the most common cause of primary grand seasons. ** his responsible for 6 to 12% up to 30% of all epilepsis in hospital/dim and for 3% secondary to a doce-to-door population mely 11% LBE phenotype is doce-to-door population mely 11% LBE phenotype is doce-to-door population mely 11% LBE phenotype is doce acterized by adolescent onset and hiddong grand mal (clean-consec-donic), myodo and absence scienters and EEE diffuse 2.6 ** Het polypak we was of 500 difuse 2.6 ** Het polypak we work of 500 distribution o

From the Neutrings Training Property (M.T.M., R.M.D., M.C.N.), National Astronomical University of Hondaria, Tepologic Constant Company & Laborations (E.T.M., R.M.D., IE.M.-), U.M.B., D.B., M.T., U.M.-), A.V.D.-D., Dalescon Control (Entral

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The Neurology Training Program has collaborated with the WHO and PAHO on Neuroinfections, the ICD-11 and PAHO Strategy and Plan of Action



Epilepsia, 53(Suppl. 2):3-5, 2012 doi: 10.1111/i.1528-1167.2012.03550.x

CLASSIFICATION REVISITED

Revising the ICD-10 codes for epilepsy and seizures

*Donna C. Bergen, †Ettore Beghi, and ‡Marco Medina

Rush University, Chicago, Illinois, U.S.A.; † Mario Negri' Institute for Pharmacological Research, Milano, Italy; and tNational Autonomous University of Honduras, Tegucigalpa, Honduras

SHIMMARY

The World Health Organization is currently revising the International Classification of Disease, 10th Revision (ICD-10). A Neurology Task Force Advisory Group [TAG] has been charged with producing a revision that reflects scientific advances and new concepts of pathophysiology since 1992. The ICD codes are used globally to report mortality and morbidity statistics, and they play a vital role in health care planning, training, and allocation of health care resources in many

countries. Although used by physicians and hospitals at all levels, the primary users of the ICD codes are primary health care providers, which, particularly in low income countries, include nurses, clinical assistants, and health officers. The TAG, which consists of representatives of major international subspecialty groups such as the International League Against Epilepsy (ILAE), has published draft codes that are available online for public

KEY WORDS: International classification of diseases, Epilepsy dassification, Seizure classification.

codes are written and promulgated by the World Health formed WHO was charged with keeping the system up to January 22, 2012). date and maintaining its credibility and usefulness for its member states.

Today the ICD codes are the main epidemiologic instrument used by many countries for gathering users of the codes include health officers, nurses, physicians, and professional coders. Information generated by the ICD codes is summarized in WHO's annual World

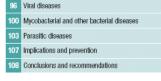
The International Classification of Diseases (ICD) organizations for data management and reimbursement purposes. They are translated into the WHO's "official" Organization (WHO). Although an internationally languages: English, Spanish, French, Chinese, Russian, accepted diagnostic coding system was first devised in the and Arabic, and 36 other languages (http://www.who.int/ mid-nineteenth century, it was in 1948 that the newly classifications/icd/ICD-10%20languages.pdf, accessed 2

In 2009 the WHO began the revision of ICD-10 Chapter on Diseases of the Nervous System, including the appointment of a Task Force Advisory Group (TAG) for Neurology, which was charged with assembling a comprehensive national health statistics for internal use, and for report- list of neurologic and neurosurgical disorders into one ing annual morbidity and mortality data to WHO. Major coding group or "block." The Neurology TAG consists of representatives of the major international neurological subspecialty organizations, including the International League Against Epilepsy (ILAE), as well as neuroscien-Health Report, and is a major source of health informa- tists and clinical neurologists from every continent and tion used by ministries of health, health care planners, from low, middle, and high income countries. The initial nongovernmental organizations, and others involved in charge to the group was to compose a classification system allocation of resources for health care, training pro- that is (1) scientifically plausible and up to date; (2) epide-

Neuroinfections: Neurocysticercosis is one of the most common neurological problem worldwide

neurological disorders: a public health approach 95

3.5 Neuroinfections

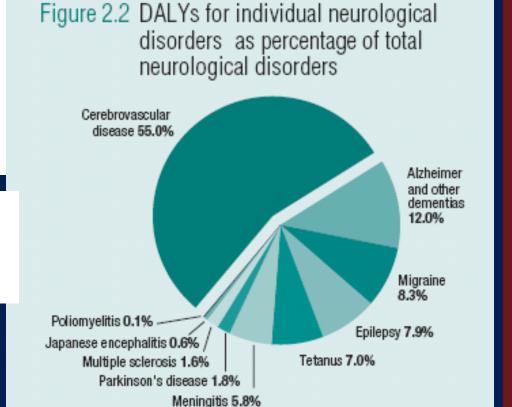


Infectious diseases that involve the nervous system affect millions of people around the world. They constitute the sixth cause of neurological consultation in pri-

mary care services and are reported globally by a quarter of WHO's Member States and by half the countries in some parts of Africa and South-East Asia. Neuroinfections are of major importance since ancient times and, even with the advent of effective antibiotics and vaccines, still remain a major challenge in many parts of the world, especially in developing nations.

3.5 Neuroinfections

Reyna M. Duron, Hector Hugo Garcia, Ashraf Kurdi, Marco T. Medina (chair), Luis C. Rodriguez



Salama Study: Active epilepsy prevalence (15.4), incidence (92.7), and Etiologies.

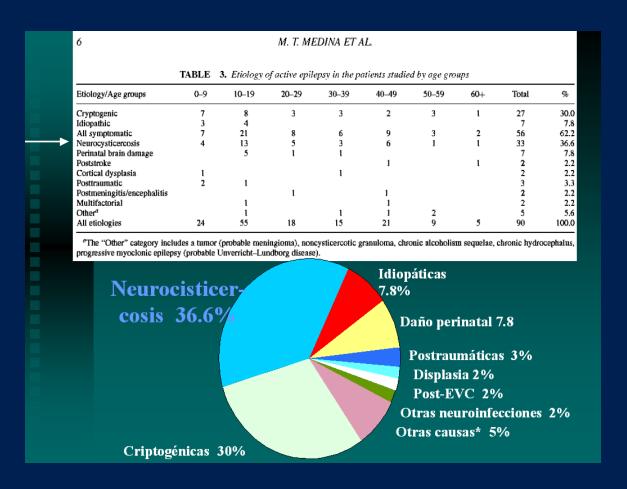
Epilepsia, 46(1):124–131, 2005 Blackwell Publishing, Inc. © 2005 International League Against Epilepsy

Prevalence, Incidence, and Etiology of Epilepsies in Rural Honduras: The Salamá Study

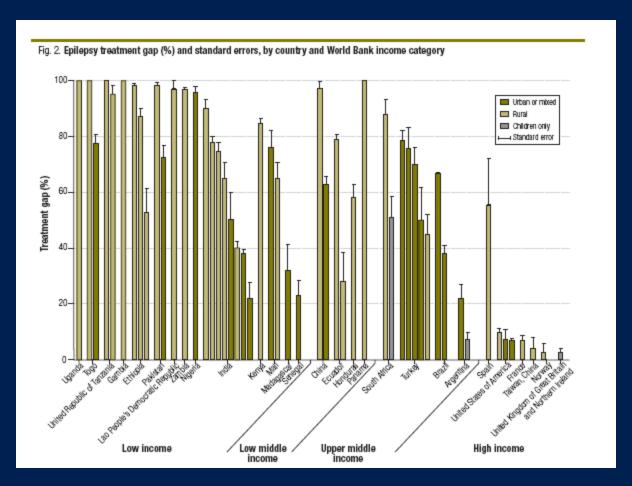
*Marco T. Medina, *Reyna M. Durón, †Lisandro Martínez, †Juan Ramón Osorio, †Ana L. Estrada, †Concepción Zúniga, †Dora Cartagena, ‡Julianne S. Collins, and ‡§Kenton R. Holden

*Neurology Training Program, Postgraduate Direction, National Autonomous University of Honduras; †Secretary of Health, Tegucigalpa, Honduras; ‡Greenwood Genetic Center, Greenwood, South Carolina; and \$Department of Neurology, Medical University of South Carolina, Charleston, South Carolina, U.S.A.

Etiologies: Neurocysticercosis (36.6%), Perinatal brain damage (7.8%), Idiopathic (7.8%), etc



Previous Treatment Gap in the Salama Study was 58%



Meyer et al Bull World Health Org 2010;88:260-68

Neurology Training Program and Honduras Community Intervention

Epilepsia, **(*):1–9, 2011 doi: 10.1111/j.1528-1167.2010.02945.x

FULL-LENGTH ORIGINAL RESEARCH

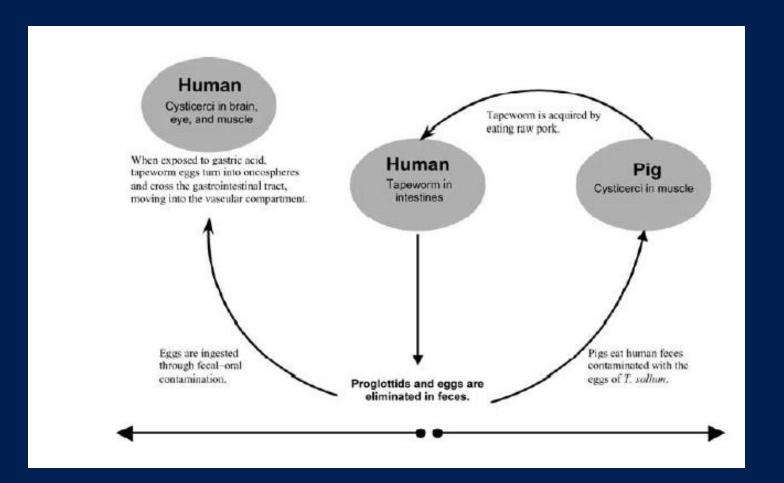
Reduction in rate of epilepsy from neurocysticercosis by community interventions: The Salamá, Honduras Study

*Marco T. Medina, *Rafael L. Aguilar-Estrada, *Allan Alvarez, *Reyna M. Durón, †Lizandro Martínez, *Sofia Dubón, ‡Ana L. Estrada, ‡Concepción Zúniga, †Dora Cartagena, *Arnold Thompson, *Eunice Ramirez, †Lenín Banegas, †Juan R. Osorio, §Antonio V. Delgado-Escueta, ¶Julianne S. Collins, and ¶#Kenton R. Holden

*Neurology Training Program, National Autonomous University of Honduras, Tegucigalpa, Honduras; †Secretary of Health, Departmental Level, Sanitary Region 15, Olancho, Honduras; †Secretary of Health, Central Level, Tegucigalpa, Honduras;

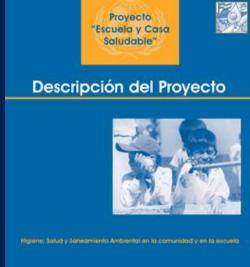


Interventions strategies



Interventions

1) Education on nutrition and sanitation primarily targeting healthcare providers and community leaders as well as the local citizens by means of brochures, posters, public meetings/conferences, and public communication media



Intervention (2)

• 2) Ongoing education along with deparasitization and stool analyses surveillance for Taenia solium in more than 12,000 toddlers and school-aged children over the 8 years in the Salamá

municipalities.

Intervention (3)

• 3) Improving access to potable water primarily by improving contaminated water and waste disposal infrastructure in the highest risk communities based on the initial prevalence studies.





Intervention (4)

• 4) Construction and equipping of a county maternal-fetal health clinic and obstetric delivery suite supplied with an ambulance for transportation of emergencies to secondary or tertiary hospitals.



Intervention (5)

• 5) Education on animal husbandry for county farmers, primarily pig farmers, was instituted by the Department of Agriculture and follow-up inspections made by local authorities for compliance to these established animal-related health codes.



Epidemiological Surveillance

 On site epidemiological surveillance. An epidemiologist living in the area was appointed.

 The Neurology Training Program was founded, and one of its main aim has been to provide the neurological care and supervision (locally and at the University Hospital in the capital city)

Incidence

Table 1. Incidence rates (×100,000) for new active epilepsy and neurocysticercosis cases over 8 years following implementation of public health treatment measures in 1997 in Salamá County

Year	Total population	Epilepsy cases ^a	Overall incidence of epilepsy (per 100,000)	Epilepsy due to NCC cases ^b	Incidence of epilepsy due to NCC (per 100,000)		
1998	6365	5	78.6	0	0.0		
1999	6257	2	32.0	I	16.0		
2000	6149	5	81.3	I	16.3		
2001	6041	5	82.8	2	33.1		
2002	5933	7	118.0	0	0.0		
2003	5825	6	103.0	I	17.2		
2004	5717	4	70.0	0	0.0		
2005	5609	2	35.7	0	0.0		

^aThere were a total of 36 new cases in the 8-year period of the follow-up, with a mean of 4.5 new cases per year, and mean annual incidence of 75.2/100,000 for the period.

 Medina MT, Aguilar-Estrada RL, Alvarez A, Durón RM, Martínez L, Dubón S, et al Reduction in rate of epilepsy from neurocysticercosis by community interventions: the Salamá, Honduras study. Epilepsia. 2011 Jun;52(6):1177-85

^bNote the decreasing symptomatic epilepsy secondary to neurocysticercosis (NCC) over the last 4 years of the study period along with the decreasing incidence during the same time.

Etiologies

Table 3. Etiologies of the 36 active epilepsy cases studied with new onset of disease post-1997 in Salamá County

Epilepsy etiology	1998	1999	2000	2001	2002	2003	2004	2005	Total n (%)	n (%)in 1997	p-Value
Cryptogenic	3		3	3	I	I	2		13 (36.1)	27 (30.0)	NS
Idiopathic	- 1					I			2 (5.6)	7 (7.8)	NS
Symptomatic	- 1	2	2	2	6	4	2	2	21 (58.3)	56 (62.2)	NS
Neurocysticercosis		- 1	I	2		I			5 (13.9)	33 (36.7)	0.02
Perinatal brain damage		- 1	I		I		I		4(11.1)	7 (7.8)	NS
Poststroke					I				I (2.8)	2 (2.2)	NS
Cortical dysplasia	- 1							I	2 (5.6)	2 (2.2)	NS
Posttraumatic (head)						I	I		2 (5.6)	3 (3.3)	NS
Postmeningitis/encephalitis								I	I (2.8)	2 (2.2)	NS
Multifactorial ^a					2	I			3 (8.3)	2 (2.2)	NS
"Other", b,c					2	I			3 ^b (8.4)	5° (5.6)	NS
Total	5	2	5	5	7	6	4	2	36	90 (100)	
I											

^oCombined etiology was considered when simultaneous presence of more than one proven condition correlated with seizure type and time of onset of epilepsy, without criteria to exclude one or the other as a cause.

 Medina MT, Aguilar-Estrada RL, Alvarez A, Durón RM, Dubon SA et al. Reduction in rate of epilepsy from neurocysticercosis by community interventions: the Salamá, Honduras study. Epilepsia. 2011 Jun;52(6):1177-85

^bMesial temporal sclerosis (2), nonspecific white matter lesion (1)

ctumor (1), alcoholism (1), progressive myoclonic epilepsy (1), chronic hydrocephalus (1), nonneurocysticercosis granuloma (1)

Conclusion

 Community Interventions can reduce rate of preventable Epilepsy from Neurocysticercosis

Promoting patient advocacy groups

Honduras Epilepsy Foundation (IBE Chapter)



Patients at the first conference of the Epilepsy Foundation.

UNAH: New Imaging (i.e.,3 Tesla MRI), Rehabilitation and Research Center (i.e., molecular biology) at the UNAH (2013)





Estudios sobre Medicina complementaria y alternativa

Epilepsy & Behavior 14 (2009) 645-650



Contents lists available at ScienceDirect

Epilepsy & Behavior





Adherence and complementary and alternative medicine use among Honduran people with epilepsy

Reyna M. Durón ^a, Marco T. Medina ^a, Orlinder Nicolás ^b, Francis E. Varela ^b, Francisco Ramírez ^c, Sean J. Battle ^d, Arnold Thompson ^c, Luis C. Rodríguez ^c, Conrado Oseguera ^b, Rafael L. Aguilar-Estrada ^b, Susan Pietsch-Escueta ^e, Julianne S. Collins ^d, Kenton R. Holden ^{d,f,*}

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^cSecretary of Health, Tegucigalpa, Honduras

^d Greenwood Genetic Center, Greenwood, SC, USA

e Epilepsy Foundation of Greater Los Angeles, Los Angeles, CA, USA

^fDepartments of Neurosciences (Neurology) and Pediatrics, Medical University of South Carolina, Charleston, SC, USA

Cohorte sobre status Epilepticus

G Model YSEIZ-1608; No. of Pages 5

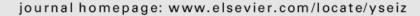
ARTICLE IN PRESS

Seizure xxx (2010) xxx-xxx



Contents lists available at ScienceDirect

Seizure





Short communication

Adult convulsive status epilepticus in the developing country of Honduras

Holly J. Skinner a,b,1,*, Sofia A. Dubon-Murcia b, Arnold R. Thompson b, Marco T. Medina b, Jonathan C. Edwards a, Joyce S. Nicholas c, Kenton R. Holden a,b

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^b Neurology Training Program, National Autonomous University of Honduras, Postgrado de Neurología, área de las torres, 5to. piso, Hospital Escuela, Blvd Suyapa, Tegucigalpa, Honduras. USA

^c Department of Medicine, Medical University of South Carolina, 135 Cannon St. Room 302M, Charleston, SC 29425, USA

Background

 In August 20th to 22nd 2008 a Regional Workshop in Tegucigalpa, suggested a Demonstrative Treatment Gap Study in Honduras

Pan American Health **Organization**

Regional Office of the World Health Organization

MENTAL HEALTH, DISABILITIES

AND

REHABILITATION

BULLETIN

August 2008

Regional Workshop sponsored by PAHO/WHO: The Current Situation of epilepsy in Latin America and the Caribbean, Challenges and Prospects

A regional workshop on epilepsy cosponsored by the Pan American Health Organization (PAHO), the Department of Mental Health and Substance Abuse of the World Health Organization (WHO), the International League Against Epilepsy (ILA) and the International Bureau for Epilepsy (IBE) took place in Tegucigalpa, Honduras from 20-22 August 2008.



Those in attendance at the opening session included Dr. Lilian Reneau-Vernon, representative of PAHO/WHO in Honduras, Dr. Jorge Rodriguez, Project Coordinator of Mental Health PAHO/WHO headquarters in Washington, D. C. and other officials from the Ministry of Public Health of Honduras.

Participants worked for three days discussing regional issues and experiences and the best strategies suited to dealing with

Epilepsy Treatment Gap Project

VOL. 27 . NO. 2 . APRIL 2012

THE OFFICIAL NEWSLETTER OF THE WORLD FEDERATION OF NEUROLOGY

Plan Addresses Epilepsy in Latin America

BY JEFF EVANS Bisevier Global Medical News

ast year, member nations of the Pan American Health Organization endorsed a strategy and action plan on eptlepsy that seeks to improve the identification, treatment, and human rights of people with epilepsy.

It is the first time that the Pan American Health Oppanization (PAHO) - the oldest regional health organization in the world - approved a neurological program as a priority, according to Dr. Marco T. Medina, who is the World Federation of Neurology's newly elected regional director for Latin

"This is one of the most important examples of what a region can do together for a neurological problem, because this is the first time regionally that a neurological problem has been put in the agenda of the governments as a priority," Dr. Medina said in an interview.

The impetus for the strategy and action plan derives from a number of earlier resolutions and programs from the World Health Organization (WHO) and the PAHO, including the 1997 Global Campaign Against Eptlepsy, the 2000 Declaration of Santiago on Eptlepsy in Latin America, and

the WHO's 2008 Mental Health Gap Action Program, which recognized epilepsy as one of eight priority conditions. The strategy and action plan is sorely needed. In the Americas,

about 5 million people have eptlepsy, but it is estimated that more than half of those with epilepsy in Latin America and the Caribbean



A padent receives an EEG evaluation for epilepsy as part of the first phase of the Honduras Treatment Gap Project in the city of Judgalpa.

have no access to services, according to the WHO.

The International League Against Epilepsy (ILAE) appointed Dr. Medina; Dr. Jorge Rodriguez, chief of PAHO Mental Health; and

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INSIDE

Australia The training and career patterns of three neurologists from 19th-century Australia illustrate different patterns of interchange between the neurologies of Europe and Australia. PARE d.

The WFN Association of Parkinsonism and Related Disorders collaborated with the Medical Association of Tanzania to hold a Parkinson's and Movement Disorders conference.

Argentina Chagus-Mazza disease is beginning to emigrate from endemic areas in Latin America to developed countries.

Knowledge of New Mutation in ALS, Dementia Grows

BY BECKY McCALL Elnevier Globel Medical News

in recent months, the discovery es of frontotemporal dementia and amyotrophic lateral scierosis, and now a series of new studies describes the frequency of the mutation and how the mutation reveals itself clinically

patients with either disease.

that the mutation most often is (FTD), and occurred in 2%-5% and 15%-48% of patients with familial FTD. For amyotrophic the mutation occurred in 4%-

in a spectrum of phenotypes in 7% of sporadic cases and 22%-The series of studies found 20%-40% of patients who show of patients with sporadic FTD ALS or FTD. Some studies reported finding the mutation in 0%-28% of pattents who prefluent aphasia variant of FTD.

43% of familial cases. Another of identifying the C9ORF72 mu- a new departure to 'fill in' a tation is the availability of a popsymptoms of both diseases had ulation of at-risk carriers of the of the C9ORF72 mutation has associated with behavioral vari- the mutation; the rate reached mutation to aid research into added fresh insight into the caus- ant-frontotemporal-dementia almost 50% among these pa- the preclinical phase of disease, tients with a family history of said Dr. Kevin Talbot, professor of motor neuron blology at the University of Oxford, England. 'Rather than work in the phase lateral sclerosis (ALS) patients, sent with the progressive non- of established disease, which may be intractable to disease

The eventual clinical impact modifying therapy this provides phase in the natural history of ALS which has hitherto not been amenable to study." Dr. Talbot was a coauthor on a study that screened 4.448 na. tients with ALS and 1,425 patients with FTD for the mutation/Lancet Neurol, 2012 March

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