Bibliography of Amyotrophic Lateral Sclerosis and Parkinsonism-Dementia of Guam

BIBLIOGRAPHY OF AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA OF GUAM

Ralph M. Garruto
Richard Yanagihara
Doreen M. Arion
Catherine Anne Daum
D. Carleton Gajdusek

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service National Institutes of Health

NIH Publication No. 83-2622

Laboratory of Central Nervous System Studies National Institute of Neurological and Communicative Disorders and Stroke National Institutes of Health Bethesda, Maryland 20205

PREFACE

Amyotrophic lateral sclerosis (ALS), locally referred to as litiko or paralitiko, occurs in extremely high incidence among the indigenous Chamorro population of Guam. This prompted the National Institute of Neurological Diseases and Blindness of the National Institutes of Health to establish a field station on the island in 1956 to clarify the etiology and pathobiology of this fatal neurologic disease. A second fatal neurologic disorder, parkinsonismdementia (PD), locally referred to as bodig or rayput, was discovered in equally high incidence on Guam a few years later and added a second major dimension to the neurological investigations of the Research Center. The field station is currently located in the Guam Memorial Hospital and is called the National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) Research Center. Intensive and systematic epidemiologic, neurologic and neuropathologic surveillance of Guam and her neighboring sister islands in the Marianas chain is part of a multifaceted study of high incidence foci of ALS and parkinsonian syndromes in the western Pacific. The remaining major Pacific foci, West New Guinea and the Kii Peninsula of Japan, together with the Guam focus, provide unique research opportunities for solving the cause of ALS and parkinsonism not only in the western Pacific but worldwide as well.

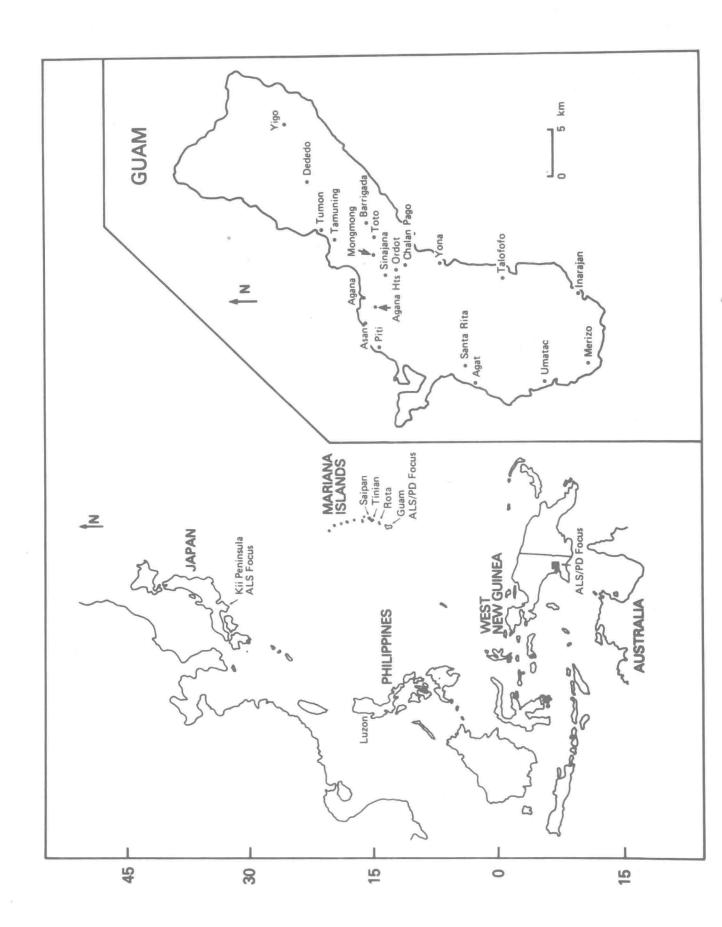
This bibliography comprises several sections: all scientific publications on the hyperendemic focus of ALS and PD of Guam and the Commonwealth of the Northern Mariana Islands are arranged alphabetically (according to author) and chronologically; publications on the high incidence of motor neuron disease and parkinsonian syndromes in the Kii Peninsula of Japan and in West New Guinea are listed separately; selected references dealing with various aspects of the environment and people of the Mariana Islands form the Supplemental Bibliography. No attempt was made to include journalistic or passing references to amyotrophic lateral sclerosis or parkinsonism-dementia. Also, references to these disorders within textbooks of medicine were not included. The Supplemental Bibliography on Guam and the Commonwealth of the Northern Mariana Islands was subdivided into several major sections, but no attempt was made to prepare a definitive supplement. Only a sampling of major publications and other selected references were included to provide a general comprehensive background to the Mariana Islands.

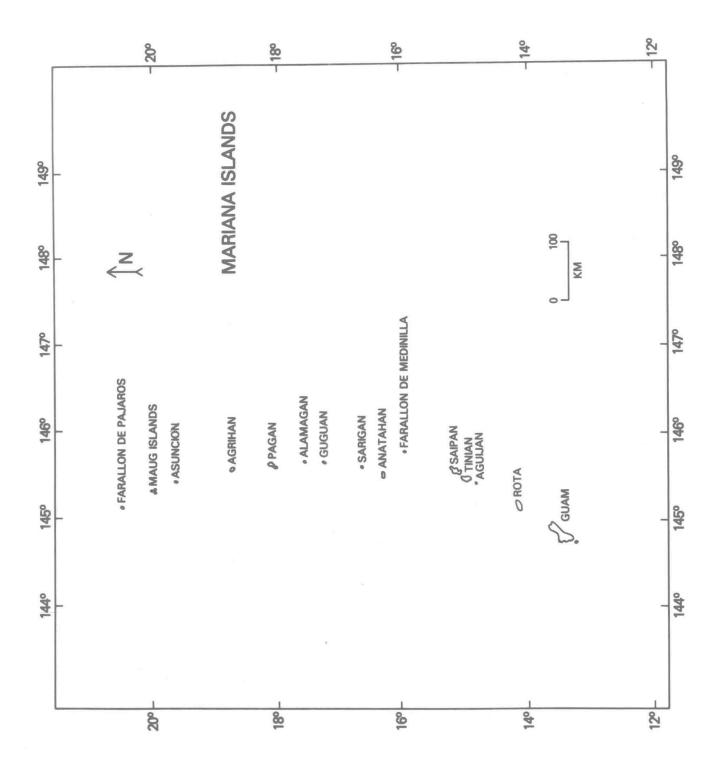
ACKNOWLEDGMENTS

During the past 26 years, numerous scientists and support personnel have been intimately associated with the activities of the NINCDS Research Center on Guam. They are: Bernard M. Abrams, Frank H. Anderson, Edward W. Brink, Jacob A. Brody, Paul Brown, Thomas A. Burch, John Butler, Guadalupe Castro, William F. Caveness, Thomas N. Chase, Kwang-Ming Chen, Manuel T. Cruz, Olivia T. Cruz, Hitoka Doi, David P. Dunn, Teresita S. Elizan, Paul Fedio, D. Carleton Gajdusek, Ralph M. Garruto, Clarence J. Gibbs, Jr., Marjorie M. Gillespie, Mary R. Givens, Ann Harlan, Thomas E. Henson, Mary E. Hernandez, Asao Hirano, Joan Hoffard, Paul M. Hoffman, E. Michael Holden, Hideki Igisu, Fusahiro Ikuta, Lorenzo L.G. Iriarte, Robert N. Knickerbocker, Donald R. Koerner, Robert S. Krooth, Leonard T. Kurland, Edward H. Lambert, Francisco C. Leon Guerrero, Simmons Lessell, Nancy Luber, Edward F. MacNichol, Jr., Takao Makifuchi, Nathan Malamud, Richard L. Masland, K.V. Mathai, Charles E. Morris, Dennis Moss, Eiichiro Mukai, Donald W. Mulder, Luis T. Munoz, Nobuyuki Murakami, Ntinos C. Myrianthopoulos, Yasuho Nagano, Imaharu Nakano, Richard L. Need, James V. Neel, George J. Nemo, Minerva T. Nolte, Takashi Ohtoh, Kiyomitsu Oyanagi, Brigida L. Perez, Samuel J.L. Pieper, Jr., Chris C. Plato, Susan M. Pollard, Charles M. Poser, Dwayne M. Reed, Deanna S. Robbins, David L. Rossman, Julita V. Santos, James A. Schnur, William J. Schull, Reuel A. Stallones, John M. Stanhope, Jose M. Torres, Donald B. Tower, Sadatoshi Tsuji, Yushiro Uebayashi, Takashi Ueda, Cornelius Van Nuis, Frances T. Vickers, Nancy Wetmore, Lon R. White, Marjorie G. Whiting, Richard Yanagihara, and Yoshiro Yase. In addition, many other investigators have conducted studies on Guamanian amyotrophic lateral sclerosis and parkinsonism-dementia. Although they are too numerous to mention here, all are listed alphabetically in the author index.

We would like to express our appreciation to the patients and their families and to all those who participated as normal volunteers in investigations on amyotrophic lateral sclerosis and parkinsonism-dementia throughout the Mariana Islands. Past governors, both military and civilian, and the Guam Legislature have cooperated extensively to help us continue the important work of the NINCDS Research Center. The professional personnel and technical staff of the Guam Memorial Hospital, the Naval Regional Medical Center, the Medical Center of the Marianas, the Rota Hospital, the Dr. Torres Hospital on Saipan, the Public Health Departments on Guam and Saipan, and the Office of Vital Statistics on Guam have been of invaluable help. We are particularly indebted to Drs. Arthur J. Loerzel, Hong-Yee Park, Leung Chen, Francisco Palacios, Jose Chong, Benusto Kaipat and Bernard You for their continued support and assistance, and to the Guam Medical Society and the many practicing physicians on the island for referring patients to us. In the early years the success of the program often depended on assistance from the public health nurses, village commissioners and priests. The Departments of Public Works and Agriculture and the Guam Environmental Protection Agency have also been of great assistance.

We wish to thank those acknowledged for their years of service and dedication to the NINCDS Research Center, and for their continued cooperation in furthering our knowledge of amyotrophic lateral sclerosis and parkinsonism-dementia locally as well as worldwide. Virtually no Chamorro family on the island of Guam has escaped the effects of these progressively degenerative neurological disorders, and we hope that continued research will help to reduce the burden of suffering endured by the Chamorro people of the Mariana Islands.





CONTENTS

PREFACE	V
ACKNOWLEDGMENTS	vii
MAP OF GUAM AND THE WESTERN PACIFIC REGION	ix
MAP OF THE MARIANA ISLANDS	xi
BIBLIOGRAPHY OF AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA OF GUAM - Alphabetical Listing	1-36
BIBLIOGRAPHY OF AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA OF GUAM - Chronological Listing	37-74
BIBLIOGRAPHY OF AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONIAN SYNDROMES IN THE KII PENINSULA OF JAPAN	75-88
BIBLIOGRAPHY OF AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONIAN SYNDROMES IN WEST NEW GUINEA	89-92
SUPPLEMENT: SELECTED BIBLIOGRAPHY OF GUAM AND THE COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS	93-164
HISTORICAL MAP OF THE MARIANA ISLANDS	95
I. HISTORY AND GEOGRAPHY	97-106
II. NATURAL ENVIRONMENT	107-124
Fauna Flora Geology and Hydrology	109-114 115-120 121-124
III. GENERAL ANTHROPOLOGY	125-140
Archeology Cultural Anthropology Linguistics	127-130 131-136 137-140
IV. HEALTH AND DISEASE	141-158
Epidemiology and Public Health Human Biology and Physical Anthropology Nutrition	143-152 153-156 157-158
V. BIBLIOGRAPHIES	159-164
AUTHOR INDEX	165-173

BIBLIOGRAPHY OF AMYOTROPHIC LATERAL SCLEROSIS AND PARKINSONISM-DEMENTIA OF GUAM

Alphabetical Listing

ANDERSON, F.H., RICHARDSON, E.P., Jr., OKAZAKI, H., and BRODY, J.A.

Neurofibrillary degeneration on Guam. Frequency in Chamorros and non-Chamorros with no known neurological disease. Brain 102: Part I (March), 65-77.

ANDREWS, John M.

Neurological disease on Guam. A review of past and present investigations. Bulletin of the Los Angeles Neurological Societies $\underline{32}$, 30-42.

ANONYMOUS

- The amyotrophic lateral sclerosis of Guam. Medical Journal of Australia 2:1 (July 2), 31.
- 1972 Motor neurone disease. International Journal of Epidemiology 1:3, 197-198.
- 1979 Neuropathological normality in Guam. Lancet 2:8137 (August 11), 293.

ARNOLD, Arthur, EDGREN, Donald C., and PALLADINO, Vincent S.

1953 Amyotrophic lateral sclerosis. Fifty cases observed on Guam. Journal of Nervous and Mental Disease 117:2 (February), 135-139.

BAHMANYAR, Sina, GAJDUSEK, D. Carleton, SOTELO, Julio, and GIBBS, Clarence J., Jr.

Longitudinal spinal cord sections as substratum for anti-neurofilament antibody detection. Journal of the Neurological Sciences 53:1, 85-90.

BLAKE, N.M., KIRK, R.L., WILSON, S.R., GARRUTO, R.M., GAJDUSEK, D.C., GIBBS, C.J., Jr., and HOFFMAN, P.

Search for a red cell enzyme or serum protein marker in amyotrophic lateral sclerosis and parkinsonism-dementia of Guam. American Journal of Medical Genetics 14:2 (February), 299-305.

BOBOWICK, A. Roger and BRODY, Jacob A.

Epidemiology of motor-neuron diseases. New England Journal of Medicine 288:20 (May 17), 1047-1055.

BRODY, Jacob A.

- N.D. Amyotrophic lateral sclerosis fact sheet. Mimeographed. National Institute of Neurological Diseases and Blindness Research Center, Tamuning, Guam, 2 pp.
- N.D. Parkinsonism-dementia fact sheet. Mimeographed. National Institute of Neurological Diseases and Blindness Research Center, Tamuning, Guam, 2 pp.

- 1970 Genetic considerations in Parkinson's disease. In: "L-Dopa and Parkinsonism", A. Barbeau and F.H. McDowell, editors. F.A. Davis Co., Philadelphia, pp. 27-30.
- Amyotrophic lateral sclerosis and parkinsonism-dementia of Guam-recent observations. In: Proceedings of the Sixth International Scientific Meeting of the International Epidemiological Association, Primosten, Yugoslavia, August 29-September 3, A. Michael Davies, editor, pp. 451-454.

BRODY, Jacob A., CHASE, Thomas N., and GORDON, Edna K.

Depressed monoamine catabolite levels in cerebrospinal fluid of patients with parkinsonism-dementia of Guam. New England Journal of Medicine 282:20 (April 23), 947-950.

BRODY, Jacob A. and CHEN, Kwang-Ming

- 1967 Recent studies of amyotrophic lateral sclerosis and parkinsonism-dementia on Guam. In: Proceedings of the Second Asian and Oceanian Congress of Neurology, Melbourne, Australia, May 1-5, E. Graeme Robertson, editor, pp. 331-334.
- Changing epidemiologic patterns of amyotrophic lateral sclerosis and parkinsonism-dementia on Guam. In: "Motor Neuron Diseases: Research on Amyotrophic Lateral Sclerosis and Related Disorders", Proceedings of the Symposium on Amyotrophic Lateral Sclerosis and Related Disorders, San Francisco, California, April 29-May 1, 1967, F.H. Norris, Jr. and L.T. Kurland, editors. Grune and Stratton, Inc., New York, pp. 61-79.

BRODY, Jacob A., CHEN, Kwang-Ming, YASE, Yoshiro, HOLDEN, E. Michael, and MORRIS, Charles E.

1974 Inosiplex and amyotrophic lateral sclerosis. Therapeutic trial in patients on Guam. Archives of Neurology 30:4 (April), 322-323.

BRODY, Jacob A., EDGAR, Anne H., and GILLESPIE, Margerie M.

1978 Amyotrophic lateral sclerosis. No increase among US construction workers in Guam. Journal of the American Medical Association 240:6 (August 11), 551-552.

BRODY, Jacob A., HIRANO, Asao, and SCOTT, R. Michael

1971 Recent neuropathologic observations in amyotrophic lateral sclerosis and parkinsonism-dementia of Guam. Neurology 21:5 (May), 528-536.

BRODY, J.A. and KURLAND, L.T.

1973 Amyotrophic lateral sclerosis and parkinsonism-dementia in Guam. In: "Tropical Neurology", J.D. Spillane, editor. Oxford University Press, London, pp. 355-375.

- BRODY, Jacob A., STANHOPE, John M., and KURLAND, Leonard T.
- 1975 Patterns of amyotrophic lateral sclerosis and parkinsonism-dementia on Guam. In: "Topics on Tropical Neurology, Contemporary Neurology Series, Vol. 12", R.W. Hornabrook, editor. F.A. Davis Co., Philadelphia, pp. 45-70.
- CHASE, Thomas N., HOLDEN, E. Michael, and BRODY, Jacob A.
- 1973 Levodopa-induced dyskinesias. Comparison in parkinsonism-dementia and amyotrophic lateral sclerosis. Archives of Neurology 29:5 (November), 328-330.
- CHASE, Thomas N., SCHNUR, James A., BRODY, Jacob A., and GORDON, Edna K.
- Parkinsonism-dementia and amyotrophic lateral sclerosis of Guam.

 Effect of probenecid on monoamine catabolite levels in cerebrospinal fluid. Archives of Neurology 25:1 (July), 9-13.

CHEN, Kwang-Ming

- Motor neuron involvement in parkinsonism-dementia and its relationship to Guam ALS. Abstract in Abstracts of the International Symposium on Amyotrophic Lateral Sclerosis, Tokyo, Japan, February 2-3. Japan Medical Research Foundation, Tokyo, Japan, pp. 38-39. In:

 "Amyotrophic Lateral Sclerosis", Proceedings of the International Symposium on Amyotrophic Lateral Sclerosis, Tokyo, Japan, February 2-3, 1978, Japan Medical Research Foundation, editor. University of Tokyo Press, Tokyo, pp. 319-344.
- CHEN, Kwang-Ming, ABRAMS, Bernard M., and BRODY, Jacob A.
- Serial EEGs of patients with parkinsonism-dementia syndrome of Guam. Electroencephalography and Clinical Neurophysiology <u>25:4</u> (October), 380-385.
- CHEN, Kwang-Ming, BRODY, Jacob A., and KURLAND, Leonard T.
- Patterns of neurologic diseases on Guam. I. Epidemiologic aspects. Archives of Neurology 19:6 (December), 573-578.
- CHEN, Kwang-Ming, BRODY, Jacob A., KURLAND, Leonard T., and ELIZAN, Teresita S.
- 1970 Clinical and genetic patterns of neurological diseases other than amyotrophic lateral sclerosis on Guam. Neurology 20:10 (October), 954-964.

- CHEN, Kwang-Ming and CRUZ, Olivia T.
- Amyotrophic lateral sclerosis and parkinsonism-dementia. "Lytico and bodig". The haunting diseases of Guam. Mimeographed. National Institute of Neurological and Communicative Disorders and Stroke Research Center, Tamuning, Guam (August), 10 pp.
- CHEN, Kwang-Ming, DOI, Hitoka, CHASE, Thomas N., and UEBAYASHI, Yushiro
- 1982 Effect of L-dopa on the clinical duration and quality of life of parkinsonism-dementia on Guam. Abstract in Abstracts of the Thirty-fourth Annual Meeting of the American Academy of Neurology, Washington, D.C., April 25-May 1. Neurology 32:4 (April) (Part 2), A228.
- CHEN, Kwang-Ming, GARRUTO, Ralph, GAJDUSEK, D. Carleton, and NAKANO, Imaharu
- Amyotrophic lateral sclerosis (ALS) and parkinsonism-dementia (PD) in Filipino migrants on Guam. Abstract No. NE5 in Abstracts of the Thirty-second Annual Meeting of the American Academy of Neurology, New Orleans, Louisiana, May 1-3. Neurology 30:4 (April), 438.
- CHEN, Kwang-Ming, MAKIFUCHI, Takao, GARRUTO, Ralph M., and GAJDUSEK, D. Carleton
- Parkinsonism-dementia in a Filipino migrant: a clinicopathologic case report. Neurology 32:11 (November), 1221-1226.
- CHEN, K-M., MUKAI, E., GAJDUSEK, D.C., GIBBS, C.J., Jr., and CHASE, T.N.
- 1981 Recent observations on parkinsonism dementia. Abstract No. 50 in Abstracts of the Twelfth World Congress of Neurology, Kyoto, Japan, September 20-25. International Congress Series No. 548, Excerpta Medica, Amsterdam, p. 16.
- CHEN, Kwang-Ming, MURAKAMI, Nobuyuki, GIBBS, Clarence J., Jr., and GAJDUSEK, D. Carleton
- A study on the natural history of amyotrophic lateral sclerosis and parkinsonism-dementia of Guam. Shinkei Naika 13:2 (August), 161-170.
- CHEN, Kwang-Ming, TSUJI, Sadatoshi, GAJDUSEK, D. Carleton, and GIBBS, Clarence J., Jr.
- 1979 Studies on the natural history of parkinsonism-dementia (PD) of Guam.
 II. Motor neuron involvement and postural deformities in advanced PD.
 Abstract No. NE3 in Abstracts of the Thirty-first Annual Meeting of the American Academy of Neurology, Chicago, Illinois, April 23-28.
 Neurology 29:4 (April), 578.

CHEN, Leung

Neurofibrillary change on Guam. Archives of Neurology 38:1 (January), 16-18.

CHOU, Samuel M.

Significance of Bunina bodies in ALS. Abstract in Abstracts of the International Symposium on Amyotrophic Lateral Sclerosis, Tokyo, Japan, February 2-3. Japan Medical Research Foundation, Tokyo, Japan, pp. 19-22.

1979 Pathognomy of intraneuronal inclusions in ALS. In: "Amyotrophic Lateral Sclerosis", Proceedings of the International Symposium on Amyotrophic Lateral Sclerosis, Tokyo, Japan, February 2-3, 1978, Japan Medical Research Foundation, editor. University of Tokyo Press, Tokyo, pp. 135-176.

CHOU, S.M., KUZUHARA, S., GIBBS, C.J., Jr., and GAJDUSEK, D.C.

Giant axonal spheroids along corticospinal tracts in a case of Guamanian ALS. Abstract No. 26 in Abstracts of the Fifty-sixth Annual Meeting of the American Association of Neuropathologists, New Orleans, Louisiana, June 13-15. Journal of Neuropathology and Experimental Neurology 39:3 (May), 345.

DIWAN, A.R., WONG, D., PURCELL, R.H., HOFFMAN, P.M., GARRUTO, R.M., GIBBS, C.J., Jr., and GAJDUSEK, D.C.

Prevalence of hepatitis B markers among Guamanian patients with amyotrophic lateral sclerosis (ALS), parkinsonism-dementia (PD), and non-patient controls. Abstract No. 75 in Abstracts of the Tenth International Congress on Tropical Medicine and Malaria, Manila, Philippines, November 9-15, p. 51.

DOI, Hitoka, TATEISHI, Jun, OHTA, Michiya, KUROIWA, Yoshigoro, GAJDUSEK, D.C., CHEN, K-M., and GIBBS, C.J., Jr.

Guam toh kinishukusei sokusaku kokasho oyobi parkinsonism-dementia no shinkei-byoorigakuteki kenkyuu-24 bokenrei no kansatsu [Neuropathological study of amyotrophic lateral sclerosis and parkinsonism-dementia on Guam: an analysis of 24 autopsy cases]. No to Shinkei 34:1 (January), 63-70.

ELDRIDGE, Roswell, ROSARIO, Juan, and BRODY, Jacob

Amyotrophic lateral sclerosis and parkinsonism-dementia in a migrant population from Guam. Proceedings of the Ninety-third Annual Meeting of the American Neurological Association, Washington, D.C., June 17-19, Melvin D. Yahr, editor. Transactions of the American Neurological Association 93, 204-206.

ELDRIDGE, Roswell, RYAN, Elizabeth, ROSARIO, Juan, and BRODY, Jacob A.

Amyotrophic lateral sclerosis and parkinsonism-dementia in a migrant population from Guam. Neurology 19:11 (November), 1029-1037.

ELIZAN, Teresita S.

Neurological re-evaluation of amyotrophic lateral sclerosis/
parkinsonism-dementia complex on Guam. In: Proceedings of the Fifth
International Congress of Neuropathology, Zurich, Switzerland,
August 31-September 3, 1965, F. Lüthy and A. Bischoff, editors.
International Congress Series No. 100, Excerpta Medica, Amsterdam
(July), pp. 195-198.

ELIZAN, Teresita S., CHEN, Kwang-Ming, MATHAI, K.V., DUNN, David, and KURLAND, Leonard T.

Amyotrophic lateral sclerosis and parkinsonism-dementia complex. A study in non-Chamorros of the Mariana and Caroline Islands. Archives of Neurology 14:4 (April), 347-355.

ELIZAN, Teresita S., HIRANO, Asao, ABRAMS, Bernard M., NEED, Richard L., VAN NUIS, Cornelis, and KURLAND, Leonard T.

Amyotrophic lateral sclerosis and parkinsonism-dementia complex of Guam. Neurological reevaluation. Archives of Neurology 14:4 (April), 356-368.

ESPINOSA, Raul E., OKIHIRO, Michael M., MULDER, Donald W., and SAYRE, George P.

Hereditary amyotrophic lateral sclerosis. A clinical and pathologic report with comments on classification. Neurology 12:1 (January), 1-7.

FULLMER, Harold M., SIEDLER, Howard D., KROOTH, Robert S., and KURLAND, Leonard T.

A cutaneous disorder of connective tissue in amyotrophic lateral sclerosis. A histochemical study. Neurology 10:8 (August), 717-724.

GAJDUSEK, D.C.

- 1979 Foci of chronic neurological diseases in high incidence in isolated populations in the Western Pacific. Abstract in Abstracts of the Fourteenth Pacific Science Congress, Khabarovsk, U.S.S.R., August 20-September 5. Committee M, Public Health and Medical Sciences, p. 31.
- Foci of motor neuron disease in high incidence in isolated populations of East Asia and the Western Pacific. In: "Advances in Neurology, Vol. 36, Human Motor Neuron Diseases", Proceedings of the International Conference on Human Motor Neuron Diseases, Scottsdale, Arizona, June 8-11, 1981, Lewis P. Rowland, editor. Raven Press, New York, pp. 363-393.

- Dementia and the aging nervous system: causes and suspected etiologies as a result of natural experiments in isolated human groups. Abstract in Proceedings of the Fifty-second Annual Meeting of the American Association of Physical Anthropologists, Indianapolis, Indiana, April 6-9. American Journal of Physical Anthropology 60:2 (February), 194-195.
- Environmental factors provoking physiological changes which induce motor neuron disease and early neuronal aging in high incidence foci in the western Pacific: calcium deficiency-induced secondary hyperparathyroidism and resultant CNS deposition of calcium and other metallic cations as the cause of ALS and PD in high incidence foci. Motor Neuron Disease Association International Symposium on Progress in Motor Neuron Disease, London, England, July 5-7, 1982. In: "Progress of Motor Neuron Disease", F.C. Rose, editor. Pittman Medical Publishers, Kent, England. (in press)

GAJDUSEK, D.C., GARRUTO, R.M., and SALAZAR, A.M.

Ecology of high incidence foci of motor neuron disease in eastern Asia and the western Pacific and the frequent occurrence of other chronic degenerative neurological diseases in these foci. Abstract No. 619 in Abstracts of the Tenth International Congress on Tropical Medicine and Malaria, Manila, Philippines, November 9-15, p. 382.

GAJDUSEK, D.C., GARRUTO, R.M., and YANAGIHARA, R.

Low levels of calcium and magnesium in drinking water and soil samples from the high incidence focus of amyotrophic lateral sclerosis and parkinsonism-dementia in West New Guinea. Abstract No. 620 in Abstracts of the Tenth International Congress on Tropical Medicine and Malaria, Manila, Philippines, November 9-15, p. 383.

GAJDUSEK, D. Carleton and GIBBS, Clarence J., Jr.

Attempts to demonstrate a transmissible agent in kuru, amyotrophic lateral sclerosis and other sub-acute and chronic nervous system degenerations of man. Nature 204:4955 (October 17), 257-259.

GAJDUSEK D. Carleton and SALAZAR, Andres M.

Amyotrophic lateral sclerosis and parkinsonian syndromes in high incidence among the Auyu and Jakai people of West New Guinea. Neurology 32:2 (February), 107-126.

GARRUTO, Ralph M.

Disease patterns of isolated groups. In: "Biocultural Aspects of Disease", H. Rothschild, editor. Academic Press, New York, pp. 557-597.