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### EDITORIAL

*Editorials are written by members of the Editorial Board, and occasionally by guest editorial writers at the invitation of the Editor, and opinions expressed are those of the writers.*

### Teaching and Training in Leprosy

#### PREFACE

In recent years there has been a marked increase in the production of teaching material on leprosy from various countries. This article attempts to list a number of books, booklets, documents, films and color transparency teaching sets and also to give information about training centers which may be of value to both teachers and students. It represents the experience of one observer in any English-speaking country over a period of only a few years, and the information presented is admittedly incomplete. It does however show that while some centers have as yet developed very little in the way of teaching aids, others have a wide range of material to offer, which is certainly not being used to full advantage. It is hoped that this article will stimulate a more comprehensive examination of the teaching material available in countries where leprosy is endemic or where research is being carried out so that the best of it may be used as widely as possible, if necessary, in several languages.

In the past few years, and in the English language alone, so many books, booklets, memoranda and documents for the teaching of leprosy have appeared that it is becoming difficult to keep pace with them. Although some have merely reproduced accepted facts in a form which is suitable for one country, or part of a country, others have been of high quality and have an almost universal application. Many are available either free of charge or at a remarkably low price; the use of a paperback format for booklets means that they can be revised and brought up to date several times during the period it now takes to conceive and produce the large, conventional reference or textbook.

Some of this material for teaching and learning about leprosy is listed below, together with information on other subjects of a more general nature which may be useful in teaching centers in developing countries, particularly where it has already been decided partially or completely to integrate leprosy control into the general services. It must be emphasized that the list is incomplete. There is also an almost constant revision of much of the material in the light of new advice on matters such as dapsone dosage and the treatment of reactions, and it is difficult to keep pace with the changes. We apologize to teaching centers or individuals who have not been well represented, and earnestly request them to contact the editor of this JOURNAL, or the author, so that a full account of their activities may be published without delay.

**WORLD HEALTH ORGANIZATION (WHO)**  
**1211 Geneva 27, Switzerland**

1. *A Guide to Leprosy Control*. WHO document LEP/73.1, 1966. Available in English only (reprint of WHO document PA/66, 214), 65 pages, plus annexes and index, A4, paperback. Although now out of date, especially on the use of drugs for bacillary infection and reactions, this document is nevertheless invaluable on the principles of leprosy control and for information on the epidemiology and distribution of leprosy in the world. A new issue is currently in preparation (1978).

2. *Leprosy in Children*, by F. M. Noussitou, H. Sansarricq and J. Walter (1966). Twenty-eight pages, with color illustrations, available in English, French, Spanish. Price Sw. fr. 9. The author (formerly assistant professor of dermatology at the University of Buenos Aires, Argentina) was assisted by Dr. H. Sansarricq, Chief Medical Officer, and Dr. J. Walter, Medical Officer, Leprosy, Division of Communicable Diseases, WHO, Geneva. The book is introduced by Dr. S. G. Browne, Consultant Adviser in Leprosy, Department of Health and Social Security, UK. There are 13 color plates of high quality and the text contains valuable information, but the price is high compared with much of the material listed below. [In view of recent reports of surprisingly high incidence rates of leprosy in urban, as opposed to rural communities, the last section on pages 27 and 28 on school surveys is of considerable interest.]

3. *La Lèpre. Épidémiologie - Principes de Lutte*, by H. Sansarricq (1976). Quatrième Cours International en Langue Française de Surveillance Épidémiologique et de Lutte contre les Maladies Transmissibles, Genève, 5-9 avril, 1976, in French only. Twenty-two page document, covering the present state of knowledge of the subject under the following headings: background, epidemiology, prophylaxis (includes treatment) and conclusions. While awaiting the new edition of the "Guide to Leprosy Control" mentioned above, this constitutes a valuable and authoritative document with a wide application to leprosy control in the endemic areas.

4. *Formulation of a Leprosy Programme*, by J. Walter *et al.* WHO document LEP/WP/76.4, 1976, in English only. Paper presented at the WHO Expert Committee on Leprosy, Geneva, 19-25 October 1976.

5. *How to Organize a Short Educational Workshop*, by J. J. Guilbert. WHO document HMD/76.1 addendum, 1976, 48 pages, comprehensive, highly methodical, well worth study by anyone who has to take on this daunting task.

6. *Educational Handbook for Health Personnel*. WHO Offset Publication No. 35, 1977. Price sf. 28. (WHO document HMD/76.1 is out of print.)

7. *The Selection of Teaching/Learning Materials in Health Science Education*, WHO Tech. Rep. Ser., No. 538, 1974.

8. *Fifth Report of the WHO Expert Committee on Leprosy*. Tech. Rep. Ser., No. 607, 1977, 48 pages. Price Sw. Fr. 6 (£1.68). Although - as stated on the title page - this report, like all others in the series, does not necessarily represent the decisions or the stated policy of the World Health Organization, it nevertheless "contains the collective views of an international group of experts." An essential document for all working in every branch of leprosy. The headings are: Epidemiology, Strategy of Leprosy Control, The Formulation and Management of Leprosy Control Program, Research, and Recommendations for Future Research Priorities. Pages 20-24 on the use of antileprosy drugs, problems in the treatment of reactions, and release from control of inactive cases are particularly important.

9. *The Special Program for Research and Training in Tropical Diseases; The World Health Organization (WHO) with the United Nations Development Program (UNDP)*. This was launched in 1976 in order, "To develop, through research, more effective control methods for tropical diseases, with the corollary objective of strengthening biomedical research for tropical countries." It includes the following diseases: malaria, schistosomiasis, leprosy, trypanosomiasis, leishmaniasis, and filariasis. A short and highly readable account of this program is to be found in *Tropical Diseases*, a 32-page paperback, well illustrated, which describes the main difficulties to be faced and overcome in each disease; produced by WHO, with support from the

International Corporation (IDRC).<sup>1</sup> Apply to WHO, as above. For doctors or scientists who need to know about the technical planning and research aspects there are at least two volumes, and a third gives an inventory of African research institutions. Those seeking contact with special program participants in the UK may write to Professor David Bradley, Chairman, UK National Committee of the TDR, c/o Mrs. J. Beard, Medical Research Council, 20 Park Crescent, London W1N 4AL, UK. By writing to Hilary Boardman, Secretary to the Director, Special Program for Research and Training in Tropical Diseases, WHO, 1211 Geneva 27, Switzerland, one's name may be added to the mailing list for a regular "newsletter," giving information and progress notes on the six diseases concerned.

10. *WHO Films OMS*. This is a catalog, issued by WHO, of approximately 60 films which are available from various centers in different parts of the world. Leprosy is not included, but there are films on a wide range of general medical subjects, including immunization, water supplies, tuberculosis, eye diseases, the work of WHO, smallpox, nutrition, etc., which may be relevant in countries where it has already been decided to integrate leprosy into the general health services, and which will in any case provide good discussion points during courses dealing specifically with leprosy. N.B. Apply to the agencies as listed under each film, not to WHO.

11. *WHO Publication. Catalog 1947-1977*. This up-to-date list of all publications includes prices and a form of application requesting regular information on a wide range of health subjects.

Unless otherwise stated, the above WHO publications may be obtained either directly from WHO or through booksellers as follows:

- UK** H.M. Stationery Office, 49 High Holborn, London WC1V 6HB.
- USA** WHO Publications Center, USA, 49 Sheridan Avenue, Albany, NY 12210.
- France** Librairie Annette, 2 rue Casimir-Delavigne, 75006 Paris.
- Germany** Democratic Republic; Buchhaus Leipzig, Postfach 140, 701 Leipzig, Federal Republic; Govi-Verlang GmbH, Ginnheimerstrasse, 20 Postfach 5360, 6236 Eschborn.
- Spain** Commercial-Atheneum, S.A. Consejo de Ciento, 13001 Barcelona 15.
- etc., 70 countries are listed.

#### PAN AMERICAN HEALTH ORGANIZATION

**Pan American Sanitary Bureau, Regional Office of the WHO  
525 Twenty-Third Street, NW, Washington, DC 20037, USA**

There is an Office of Publications, under the direction of Claire Harley, but in fact teaching material for leprosy is mainly handled from the Instituto Nacional de Dermatologia, Caracas, Venezuela, under Dr. Jacinto Convit.

Two recent leprosy publications of particular interest, however, available from the above Washington address are:

1. *Leprosy; Cultivation of the Etiologic Agent; Immunology; Animal Models*. Scientific Publication No. 342, 1977. Proceedings of a workshop on the future problems in the microbiology of *M. leprae*, 12-15 October 1976. This is a 74-page paperback dealing with three main topics: cultivation of the etiologic agent, immunology and animal models. Price \$7.00

2. *IV Seminario Pan American Sobre el Control de la Lepra*. Publication Cientifica No. 344, Caracas, Venezuela, 22-26 September 1975, price EUA \$2.50. Organized by PAHO, with the collaboration of the Pan American Center for Research and Training in Leprosy and Tropical Diseases, Caracas, Venezuela (in Spanish). A 153-page paperback, containing a detailed report of a seminar, under the following main headings: Classification of Leprosy, Recent Advances in the Scientific Investigation of Leprosy, Therapy of Leprosy, Epidemiology of Leprosy, Sys-

<sup>1</sup>IDRC was established by an Act of the Canadian Parliament in May 1970 "to initiate, encourage, support and conduct research into problems of the developing regions of the world and into the means of applying and adapting scientific, technical and other knowledge to the economic and social advancement of those regions." At the time of writing, its only formal collaborative effort with WHO is through the special program described above.

tems of Control in Leprosy, and The Pan American Center for Research and Training in Leprosy and (Related) Tropical Diseases.

*A Short List of English Titles*, in the Scientific Publications series is available from PAHO in Washington, covering a wide range of administrative, biomedical, medical and veterinary subjects relevant to PAHO member countries.

Finally it is worth here drawing attention to *PAHEF, the Pan American Health and Education Foundation*, which is an "independent nonprofit corporation that works closely with PAHO." An article on pages 17-22 of the *Bulletin of the Pan American Health Organization*, Vol. XII, No. 1, 1978, describes "a highly successful endeavor to supply students of the health professions with essential textbooks at low cost." [This channel has not yet, to the author's knowledge, been explored with regard to improving the teaching of leprosy in the PAHO area.]

#### DOCUMENTA GEIGY AND THE CIBA-GEIGY COMPANY

Basle, Switzerland

1. *Leprosy*. Acta Clinica, No. 11, printed in 1970 by J. R. Geigy (now merged into the CIBA-GEIGY Company) and written by Dr. S. G. Browne, The Leprosy Study Center, London. This is an 82-page paperback, available in various languages, extremely well illustrated in color, and is probably the best comprehensive account of the subject in this format. Apply to the Medical Department (Publications), CIBA-GEIGY, CH 4002, Basle, Switzerland.

2. *Skin Biopsy in Leprosy*. This histological interpretation and clinical application was written by Dr. D. S. Ridley of the Hospital for Tropical Diseases, London, and published in 1977. It is a 56-page paperback, again extremely well illustrated, covering the biopsy and its preparation, pathogenesis of a skin lesion, examination and interpretation of a skin section, diagnosis and differential diagnosis, relapse; histology and bacteriology, classification and spectrum, reactions and numerical indices. In English only. Apply to CIBA-GEIGY, as above.

3. *Dermatoses in Dark-Skinned People*. A pictorial documentation in eight parts, based on photographs selected and annotated by Dr. A. R. Verhagen, Department of Dermatology, St. Joseph Hospital, Eindhoven, Netherlands. This is a compendium of eight booklets, superbly produced, under the following headings: 1) Tumors, Virus Disease, 2) Vascular Reactions and Bullous Diseases, 3) Deficiency Diseases, Hyperkeratosis, Pigmentation Anomalies, Alopecia, 4) Zoonoses, 5) Pyoderma, Acne, Mycosis, 6) Erythematous-Squamous Diseases (e.g. psoriasis), 7) Eczema and Dermatitis, and 8) Tuberculosis, Leprosy, Syphilis. The color plates are of large size, eminently suited to teaching, and most of them are of exceptional quality. Apply to CIBA-GEIGY as above.<sup>2</sup>

#### THE ALL-AFRICA LEPROSY AND REHABILITATION AND TRAINING CENTER (ALERT)

P. O. Box 165, Addis Ababa, Ethiopia

For many years this center has been active in the organization of training courses for various grades of medical and paramedical personnel. Details of these are available on application to the Director of Training, Dr. H. W. Wheate, who has kindly supplied the following list of teaching material, much of which has arisen directly from the practical experience of organizing courses for students from many different countries over a period of several years.

1. *Essentials of Leprosy*, 2nd edit., 1977; edited by J. M. H. Pearson and H. W. Wheate, printed by DAHW, 54-page booklet intended for doctors, medical students and senior leprosy workers. Covers epidemiology, bacteriology and experimental leprosy, clinical features and classification, nerve involvement, reaction in leprosy, immunology in leprosy, diagnosis and differential diagnosis in leprosy, chemotherapy, the eye in leprosy, physical therapy, the foot, place of surgery, principles of leprosy control, principles of rehabilitation and health education.

<sup>2</sup>Apart from their interest in these publications on leprosy, CIBA-GEIGY handles thiambutosine, rifampicin and clofazimine. For Brazil, in Portuguese, they have also produced an excellent short (16 small pages), illustrated "hand-out" for the layman, "Isto é preciso saber: informações e conselhos," in cooperation with the Department of Health Education in Sao Paulo.



2. *A Guide to Health Education in Leprosy*, by P. Jane Neville. Also published by GLRA. Nineteen page booklet with a great deal of practical information for both the teacher and the patient.

3. *A Simple Guide to Leprosy*, edited by W. F. Ross. Seventy-nine page paperback, with photographs, diagrams and tables; includes definition, diagnosis, clinical features, treatment, reactions, footwear and care of hands, feet and eyes. Currently out of print.

4. *Guide to Leprosy for Field Staff*. Printed originally in English, this has recently been translated into French as: *Lignes Directrices de Lutte Contre la Lèpre (A l'usage des auxiliaires médicaux)*, and is available as an 86-page document, typed on A4-sized paper and paper-backed. It deals comprehensively with "all that medical and paramedical and personnel should know in order to diagnose and treat most leprosy patients in rural areas."

5. *A Footwear Manual for Leprosy Control Programs. Parts 1 and 2*, edited by P. Jane Neville. Part 1 contains information for administrators of footwear programs and the prescribers of footwear or appliances (doctors, supervisors, etc.); and Part 2, information for the workshop technician who will be expected to make the shoes or appliances. Printed in 1977 by the German Leprosy Relief Association (DAHJ), Postfach 348, D-8700 Würzburg 11, West Germany.

Part 1 is a booklet of 44 pages. Part 2 is a larger, looseleaf, paperback of no fewer than 118 pages, and the production is a very high quality indeed. This manual must surely be the most comprehensive and useful, in any language, yet produced on this subject.

6. *Transparencies*. Three sets are in preparation but not yet available for distribution. They are: 1) The Truth About Leprosy, 24 slides, with three different texts designed for a) medical students, b) the educated layman, and c) medical/leprosy auxiliaries; 2) The Leprosy Auxiliary Teaching Set, 83 slides, with commentary, in 4 sections a) clinical, b) nerve involvement, c) disabilities, and d) leprosy control; 3) The Eye, 43 slides with commentary, in 3 sections a) eye anatomy, b) leprosy of the eye, and c) trachoma and its complications.

7. *Other materials*. a) Objectives for Doctors, Supervisors and Physiotherapist Courses, b) Job Descriptions of Supervisory and Auxiliary Staff, c) Teaching Notes for Doctors' Course, d) Teaching Notes for Rural Area Supervisors' Course.

#### **THE ROYAL TROPICAL INSTITUTE Mauritskade, 57, Amsterdam, Netherlands**

Under the heading of "TOMKIRP (Translation of Medical Knowledge into Rural Practice)," a set of color transparencies with commentary has been produced and given a selected circulation in order to test its effectiveness, while at the same time investigating one of the main problems in sets of this kind, namely its production at low cost. It is not currently for general distribution, and Dr. L. Leiker is working on a more comprehensive set using the best quality transparencies from various collections. Meanwhile some of the illustrations in the original TOMKIRP set have been incorporated in a booklet written by Dr. Leiker entitled *Hanseniasis*, which is a paperback of 72 pages, printed in 1977, and available from the address above in English, French, German, Spanish or Portuguese.

#### **THE UNITED STATES PUBLIC HEALTH SERVICE HOSPITAL Carville, Louisiana 70721, USA**

Apart from their numerous training courses geared to all levels of medical and paramedical personnel, Carville has a wealth of other materials available.

1. **Audiovisual Instructional Materials on Hansen's Disease Available from USPHS, Carville, La.**

a. *Slide Series, 35mm* (typescripts included).

"Care of the Hand in Leprosy." A set of 57 slides developed by Ms. Helen Wood, Chief Occu-

pational Therapist, Carville. The series focuses on the need to adapt tools, cooking utensils, and other objects in everyday use to protect persons with insensitive hands from injury. Illustrations are also provided of proper splinting techniques and other procedures used by professional health care specialists in leprosy.

"Clinical Aspects of Leprosy." This set of 42 slides has been developed at Carville to visualize an introductory lecture on leprosy for medical students and other health professional personnel attending one day seminars. The accompanying script is lengthy and should be reviewed thoroughly by the instructor before presenting the slides.

"General Concepts in Hansen's Disease." A set of 40 slides and typescript depicting various skin lesions and other manifestations of leprosy. Slides of the Carville facility and various research activities in leprosy are included. The slides are in no particular order and should be integrated individually into other slide presentations.

"Histopathological Aspects of Leprosy." This series of 48 teaching slides and typescript was developed by Dr. Richard Mansfield and is intended to provide an overview of histopathological concepts important in the diagnosis of leprosy.

"Ophthalmological Aspects of Leprosy." This series of 53 slides on eye care in leprosy has been developed by Dr. Margaret Brand to illustrate her lecture to resident dermatologists attending Carville two day seminars. It is quite specific in content and should be used only by those already quite familiar with fundamental concepts in leprosy.

"Prescription Footwear." This set of 50 slides is designed to acquaint persons with methods involved in the fabrication of prescription footwear.

b. *Instructional Television Programs* (available in  $\frac{3}{4}$ " videocassette or  $\frac{1}{2}$ " betamax formats).

"Armadillo Research at Carville - Update" (19 minutes, color, 1978, English and Spanish). Program features facets of armadillo research - facilities, contamination precautions, autopsy, lab procedures. Narrated by Dr. Waldemar Kirchheimer, Chief, Lab Research Branch.

"Basics of Shoe Design" (26 minutes, black and white, 1974). Program describes three basic methods of constructing footwear to protect insensitive feet. Content presented by Dr. Paul Brand, Chief, Rehabilitation Branch.

"Care of the Foot" (17 minutes, color, 1978, English). Program deals with methods of care for insensitive feet. Visually demonstrates evaluation and management procedures utilized by the physical therapy department.

"Diagnosis of Hansen's Disease" (16 minutes, color, 1977, English and Spanish). Discusses signs, symptoms, and areas of involvement. Emphasizes diagnostic technics. Shows clinical manifestations and presents differential diagnosis aspects.

"Diagnosis and Treatment of Hansen's Disease" (with response, 44 minutes, color, 1977). Two-part program on 1) signs, symptoms and areas of involvement, and 2) treatment regimens in HD, each part preceded by listing of instructional objectives and followed by correct answer to self-assessment questionnaires provided in self-study packet. Printed verbatim scripts and list of references also provided for the viewer.

"Effects of Mechanical Stress" (46 minutes, color, 1977). Discusses and illustrates four types of force destructive to insensitive feet. Research and thermographic studies shown. Lecture by Dr. Paul W. Brand, Chief, Rehabilitation Branch.

"The Eye in Hansen's Disease" (40 minutes, color, 1977). Illustrated slide presentation by Dr. Margaret Brand, Chief, Ophthalmology Department, on common eye problems in Hansen's disease and their management. Program stresses preventive aspects of eye care in Hansen's disease.

"Management of Patient Account Service" (1 hour & 45 minutes, color, 1977). These divisions are presented: Patient Service Representative, Preadmission and Admission, Outpatient Procedures, Inhouse and Discharge Billing and Collection.

"Pressure Assessment Methods" (13 minutes, color, 1977, English and Spanish). Program demonstrates procedures to be followed in conducting: 1) The Harris Mat Test, 2) Slipper Sock Test. Tests are used for evaluation of uneven force distribution and pressure on insensitive feet.

"Problem Oriented Nursing Record" (16 minutes, color, 1977). Introduces approach to

PONR used at USPHS Hospital, New Orleans. Describes system components and demonstrates patient case history using PONR format.

"Rehabilitation in Hansen's Disease" (60 minutes, color, 1976). Program illustrates disease processes and associated aspects of physical rehabilitation. Program taped during lecture to Tulane medical students by Dr. Paul W. Brand, Chief, Rehabilitation Branch.

"The Total Contact Cast" (17 minutes, color, 1978, English). Practical demonstration of plaster casting technic used at Carville. Contact cast enables patient with plantar ulcer to be ambulatory and promotes healing of ulcer. Narrated by Don Shipley, RPT.

"Treatment of Hansen's Disease" (16 minutes, color, 1977, English and Spanish). Discusses management of uncomplicated Hansen's disease. Outlines basic drug choices, treatment regimens, efficacy measurements, drug resistance problems and research efforts.

"Visitor's Introduction to Hansen's Disease" (9 minutes, color, 1976, English and Spanish). A nonmedical orientation to Hansen's disease for Carville visitors. Program cites several common misconceptions about the disease and provides general descriptive information about contemporary management technics.

2. **The STAR.** This journal is published bimonthly by the patients of Carville for the following objectives:

- a. Promote an educated public opinion on Hansen's disease.
- b. Furnish vocational rehabilitation for interested patients.
- c. Encourage and finance services for needy patients. Its present circulation has reached an astonishing 64,000; it is mailed to 50 states and 109 foreign countries. Although aimed at lay readers, it carries an increasing amount of up-to-date and important information about medical and scientific matters, together with a number of lively abstracts and reviews.

3. **Carville's Training Branch.** This branch has recently been designated as the Instructional Resource Center for the US Public Health Service, Division of Hospitals and Clinics. *The Star* has reported Carville's role as follows:

- a. Compile and analyze information concerning availability of instructional media for use in nine PHS hospitals and 28 outpatient clinics. This will include medical nursing, allied health, patient education, management, dietary, housekeeping, clerical and all other appropriate programming.
- b. Establish an audio-visual library of high quality software which can be used by all compartments of the Division of Hospitals and Clinics. Sources will include commercial as well as noncommercial producers.
- c. Provide an A-V production capability for the division. This will include on-location television production work, utilizing the latest teleproduction equipment and methods.
- d. Develop educational research studies in cooperation with other DHC facilities to measure effectiveness of media-centered instructional programs.

4. **Selected Books and Pamphlets.**

- a. *Selected References on Leprosy, an Annotated Listing*, by Dr. Richard O'Connor, 7 pages.
- b. *Hansen's Disease and Its Management*, an individualized learning program for medical, nursing and allied health personnel, by the chief of the Training Branch, Dr. Richard O'Connor. This includes a reprint of Chapter 33 of *Tice's Practice of Medicine*, on leprosy by Drs. John R. Trautman and Carl D. Enna of the Carville medical staff.
- c. Numerous booklets for teachers and patients on the care of the hands, feet and eyes.

**INTERNATIONAL FEDERATION OF  
ANTILEPROSY ASSOCIATIONS (ILEP)  
4, Rue Saint-Geoffroy, 80000, Amiens, France**

This association is currently handling a high percentage of those leprosy patients, worldwide, who have actually been registered, and its "Guidelines for the Campaign Against Leprosy" are thus worth close study. They were originally adopted by the General Assembly of ILEP in March 1970, and updated in June 1976; they are available in a booklet of 22 pages. Apart from

its main statement of policy on leprosy control, the booklet also has sections on the segregation of children of leprosy patients, segregation of patients with lepromatous leprosy, the technic of "barrier nursing" in contagious leprosy, after-care villages, and the economics of leprosy control.

ILEP has issued a "Catalog About Material for Health Education in Leprosy Control" which includes the following:

#### 1. Films.

a. *Passing the Niger by Canoe* (35 minutes, 16 mm, in French, cost FF 2.500). May be obtained from the Association Française des Fondations Raoul Follereau, 42 rue Laugier, F-75017, Paris, France. Gives an account of the life of a doctor working in the bush in Mali on the river Niger.

b. *The Courage to Love* (18 minutes, 16 mm, in French, German and Italian, cost FF 1.100). May be obtained from the address under (a). This short film, "...is devoted to the life and deeds of the 'Vagabond of Charity.' To the comments of Pierre Fresnay, numerous fotos are shown, which were taken on the occasion of Raoul Follereau's journeys, and which present the patients in a deeply affecting way."

c. *The Worldwide Spread of Leprosy* (16 mm, price FF 3.000, and 35 mm, price FF 6.000, in French). May be obtained from the same address as under (a). Reviews the history of the disease, its development, and the relationship, up to 1970, between official and private institutions working against this disease.

d. *Luck* (14 minutes, 16 mm, in German and French, cost Fr 800). Obtained from Film Produktion, Dr. Hans K. Zickendraht, Hohestrasse 46, CH-8702, Zollikon, Switzerland. "This film is meant for the population of countries, where leprosy is endemic, and shows the importance of hygiene and early case-finding in the battle against leprosy. The film is at the same time a remarkable document about life in South India" (produced in India).

e. *Helping Leprosy Patients* (German and French, price sFr. 950). Obtained from same address as under (d). "This film, made in South India, gives a perfect impression about the battle against leprosy and the treatment in a modernized hospital. It shows how leprosy patients are detected and treated."

f. *No Longer Outcasts* (English and German, price DM 2.000). Obtained from Father Agostino Carlesso, Oltremare, Viale Vaticano, 90, I-00165, Rome, Italy. "Early detection and information on leprosy. Feature film with actors from Sierra Leone; young girl gets infected by leprosy; by this, the young man is encouraged to become a leprosy worker."

#### 2. Booklets/Brochures.

a. *Rural Health Service and Preventive Medicine in Africa*, by Médecin General René Labusquière, 437 pages in French, price FF 50 from Association Française des Fondations Raoul Follereau, as above.

"This book discusses the basic elements and the evolution of the rural health service and specifies then the necessary conditions for the realization of such services with errors and traps being avoided. Furthermore the most important infectious diseases are presented and above all the possible strategy for their control. Being a practical manual for the doctor in Africa, and the result of long experience, it will be useful for those who are responsible for rural services."

b. *Memorandum on Leprosy Control*, by Dr. S. G. Browne, obtainable from the Leprosy Mission, 50 Portland Place, London WIN 3DG; or the British Leprosy Relief Association (LEPRA), Fairfax House, Causton Road, Colchester, CO1 1PU; or OXFAM, 274 Banbury Road, Oxford OX2 7DZ. This is a 31-page booklet, of pocket size, revised in 1976, outlining the modern conception of antileprosy strategies in simple and nontechnical language and indicating how the fight against leprosy is delayed unnecessarily by antiquated methods and ideas. English version obtainable from the addresses above; French from Les Amis du Père Damien, 16, rue Stevin, 6-1040, Brussels, Belgium; German from the German Leprosy Relief Association (DAHW), address as above.

c. *The Truth Above Leprosy*, by S. G. Browne. Pamphlet, in English, giving information about misunderstandings in leprosy, spread by tradition, religion and history, and thus stigma-

tizing the disease. Obtainable from the German Leprosy Relief Association, as above; and the Leprosy Study Center, 57a Wimpole Street, London W1M 7DF.

d. *In and Out-Patient Treatment in Modern Leprosy Control*, by Mlle. I. Lobel, 1966, in French. "History of leprosy - clarification - medical presentation - preventive and treatment measures against leprosy and similar diseases." Obtainable from FOPERDA, rue Stevin, 16, B-1040, Brussels, Belgium.

e. *Leprosy Can be Cured*, prepared by Kumi Leprosy Center in cooperation with the Division of Health Education, Ministry of Health, Uganda, English language. Short description of leprosy, how one can be infected with the disease, treatment and cure, everybody can assist in health education. Obtainable from the Ministry of Health, P.O. Box 8, Entebbe, Uganda.

The ILEP catalog ends by listing a number of leaflets and posters, mainly based on themes already covered in the above material.

*ILEP Statistical Data*. Through the years, ILEP has collected statistical data on all its projects which are exceptionally detailed, especially in the matter of costs. This is normally circulated and available only to ILEP members, but further information may be obtained by writing to the Secretary General, Mr. P. Van Der Wijngaert.

#### AMERICAN LEPROSY MISSIONS, INC.

1262 Broad Street  
Bloomfield, NJ 07003, USA

The following books are listed:

1. *Leprosy, A Present Day Understanding*, by Oliver Hasselblad, M.D., formerly medical consultant to ALM. Short, highly readable account of leprosy for the layman or the paramedical beginner.

2. *The Fight Against Leprosy*, by Patrick Feeney. A most valuable reprint of an excellent book (see details below), unfortunately it is out of print.

3. *Questions People Ask About Leprosy*, by W. F. Ross, 14 pages. An excellent short account by Dr. Felton Ross, formerly training director at ALERT, with some photographs and diagrams of very high quality.

4. *Reference and Training Manual for Physical Therapy Technicians in Leprosy*, prepared by Judith Pasnik, with section on leprosy by Dr. Oliver Hasselblad. Undated, probably about 1970, 132-page paperback; comprehensive, highly informative.

5. *Leprosy Rationale*, by Dr. Olaf Skinsnes. A 23-page paperback, with 20 interesting photographs, and an intriguing exposition of the factors which Dr. Skinsnes sees as likely to account for the intense social reaction to leprosy.

6. *Anatomy and Physiology Prerequisite for Physical Therapy Technicians (Aides) in Leprosy Service*, by Ellen Davis Kelly, Ph. D. Experimental draft, to be revised, March, 1976, loose-leaf, foolscap, 174 pages. Detailed, comprehensive, packed with information: "a self-instructional (programmed learning) workbook" representing an enormous amount of careful work and thought on the part of the author.

7. *A Guide to Supervision*, by Dr. W.F. Ross. In press.

8. *Physical Therapy Manual*, by Ellen Davis Kelly. In press.

#### THE INSTITUTE OF CHILD HEALTH 30 Guilford Street, London WC1N 1EH, UK

Within this institute there is a Foundation for Teaching Aids at Low Cost (TALC), which aims to provide teaching aids at or below cost for health workers; it is a self-supporting and nonprofit making organization, representing a teaching activity of the Institute of Child Health of the University of London. In fact, much of the material produced, especially the sets of color slides, has an application far beyond the health worker and can be used, for instance, in medical student or post-graduate teaching.



**Sets of color slides** (24 slides in each, except for a few which have 48) covering 40 different subjects ranging from: Burkitt's lymphoma to xerophthalmia, and including contraception, breast feeding, kwashiorkor, mental retardation, measles, and pathology of tuberculosis in childhood, etc., and two sets in leprosy. **LP** is a description of the disease with particular reference to childhood (A. C. McDougall, the Slade Hospital, Headington, Oxford OX3 7JH), and **LpCn** deals with the classification of leprosy, including its histopathology, and is by Drs. D. S. Ridley and W. H. Jopling, Hospital for Tropical Diseases, St. Pancras Way, London NW1 OPE.

The cost of a set of 24 slides is remarkably low. Self-mounting sets are £1.25, pre-mounted sets are £1.75, and sets mounted in plastic sheets in folders are £2.25. There are reductions in each case for those working in developing countries, and the prices quoted include postage. Various slide-taped sets are also available, mainly intended for individual students or small groups. Finally TALC also has an impressive list of books and pamphlets on health subjects, again at very low prices.

**PAN AMERICAN CENTER FOR RESEARCH  
AND TRAINING IN LEPROSY  
AND TROPICAL DISEASES  
Caracas, Venezuela**

The director for this center is Dr. Jacinto Convit, National Institute of Dermatology, Caracas, Venezuela. Details of training courses are given below.

The center is currently preparing a series of teaching units in leprosy for pre- and post-graduate training; it is hoped eventually to produce 12 of these, covering all aspects of the disease. There is, in addition, a wide selection of color transparencies of various forms of leprosy together with full histopathologic and immunologic information on the patients concerned. The center also carries some material for the public health teaching of leprosy patients, in Spanish.

**THE ARMED FORCES INSTITUTE OF PATHOLOGY  
Washington, D.C. 20305, USA**

Apart from its many — and surely world famous — activities in the fields of diagnosis and research, this institute is committed to "... prepare, procure and duplicate teaching aids" and "... to loan pathologic, photographic and other educational material to the Federal medical services, museums, medical schools, scientific institutions and to qualified professional individuals." There is a 152-page *List of Educational Aids* which covers almost every conceivable aspect of pathology. Although somewhat out of date now, *An Introduction to the Understanding and Diagnosis of Leprosy*, by Dr. Jan Wiersema, 1966, is a book and slide set of considerable value, especially for the clinical findings and classification of leprosy.

**WEST AFRICAN LEPROSY SECRETARIAT  
P.O. Box 673, Freetown, Sierra Leone**

Under the guidance of its administrative director, The Reverend Rocco Serra, this center has during the few years prepared a number of documents for medical and nonmedical personnel, which include the following:

1. *Basic Knowledge about Leprosy*. A guide for nonmedical personnel, 15-page booklet, well illustrated.
2. **Two films.**
  - a. *No Longer Outcasts*, as detailed above in the ILEP list.
  - b. *Leprosy Can Be Cured*, by Randel Evans Productions in Liberia; designed for those with limited education in rural areas to contrast the treatment of leprosy by herbal remedies, the medicine man, and by dapsone.

3. A considerable range of posters, leaflets, pictures, etc., for use in association with the work of a mobile unit, equipped for leprosy/TB and primary health care in various parts of Sierra Leone.

### **FONTILLES LEPROSARIUM**

**Alicante, Spain**

For many years, resident training courses have been organized at this center, and they are advertised at regular intervals in the leprosy journals; details are given below. The medical director, Dr. Terencio de las Aguas, has written what is perhaps one of the most comprehensive and up-to-date accounts of leprosy in Spanish, entitled *Lecciones de Leprologia*, a paperback (but well bound and printed) of some 484 pages, fully illustrated and with excellent color plates. Its production was aided by the Sovereign Military Order of Malta and the German Leprosy Relief Organization. Price 1.500 pesetas, plus the costs of postage. Apply to the medical director, as above.

### **SASAKAWA MEMORIAL HEALTH FOUNDATION**

**Tokyo, Japan**

This foundation is not a regular source of teaching material, but in view of the importance (and the changing climate of specialist opinion) on 1) drug treatment of the bacillary infection in leprosy, and 2) the treatment of adverse reactions, it is here worth mentioning, *The Proceedings of the First International Workshop on Chemotherapy of Leprosy in Asia*. This was held in Manila, Philippines, in January 1977, lectures being given by Dr. J. Walter (WHO, Geneva), Dr. R.R. Jacobsen (USA), Dr. M.F.R. Waters (UK), Dr. S. Hazama (Japan), Dr. S.G. Browne (UK), Dr. R.S. Guinto (Philippines), and Professor M.F. Lechat (Belgium). The lectures and the ensuing discussions were recorded in a 213-page document, well worth study by all those interested in the chemotherapy of leprosy. Available on application to the Sasakawa Health Foundation, Sabokaikan, 2-7-5 Hirakawa-cho, Chiyoda-ku, Tokyo, 102, Japan. A similar report of a workshop on "Leprosy Control" (Nov.-Dec., 1977) has recently been issued.

### **THE BRITISH LEPROSY RELIEF ASSOCIATION (LEPRA)**

**Fairfax House, Causton Road, Colchester, CO1 1PU, England**

1. *Memorandum on Leprosy Control*, jointly with The Leprosy Mission and OXFAM. See ILEP list above.

2. *Drugs to Combat Dapsone Resistance*. Short report (18 pages) following a meeting of representatives of ILEP, The Leprosy Mission, LEPRA and WHO in London in August 1977 to draw up "guidelines for the application of therapeutic regimens and individual drugs to be used in large scale leprosy control scheme programs in view of the emergence of dapsone resistance." It represents an attempt to translate some of the conclusions of the Fifth Report of the WHO Expert Committee on Leprosy (1977), concerning resistance, into practical lines of action suitable to the field work of the organizations listed above.

3. *Prize Essay Competitions for Medical Students in UK Universities* A prize of £100 (or more, in cases of merit) has been offered yearly for the past five years for an essay on a set subject in leprosy. The number of entrants, even when this was extended to all universities in the UK with a medical faculty, has never been high; but the quality of at least one entry each year has been impressive and several have been published in the medical press. Further details obtainable from the director of LEPRA.

4. *Leprosy*, a film (½" magnetic tape, color, 35 minutes). Produced by LEPRA and available from 1) Viscome Film Library, Paxton Place, London SE27, 2) Concord Film Council, Nacton, Ipswich, Suffolk, or 3) Central Office of Information, Hercules Road, London SE1 on hire. A valuable film, suitable for medical, paramedical, and educated lay audiences.

**THE LEPROSY MISSION**  
**50 Portland Place, London W1N 3DG, UK**

1. *Memorandum on Leprosy Control*, jointly with LEPRO and OXFAM, as already noted.

2. *Watch those Eyes*, on eye complications in leprosy, by Dr. Margaret Brand, USPHS Hospital, Carville, Louisiana, USA. A 31-page pocket book containing much useful and practical information, addressed to "all those who, in whatever capacity, have the care of leprosy patients, even though they may not be technically equipped for complicated procedures."

3. *Insensitive Feet*, a practical handbook on foot problems in leprosy, by Dr. Paul Brand, FRCS, USPHS Hospital, Carville, Louisiana. This book deals with "... the foot complications which arise in leprosy and discusses ways of recognizing early symptoms so as to prevent deformity and disability."

**4. Films.**

a. *The Net* (16 mm, color, 25 minutes). This film tells how the modern domiciliary approach to leprosy control operates in practice in and around Salur, India, including the team of workers in action in villages, surveying, treating, checking and caring, supported by the central hospital.

b. *Lifted Hands*. An award-winning documentary of the hand in leprosy.

c. *Active Feet*. Documentary in two parts. Enquiries to the nearest Leprosy Mission representative or to the above address in London.

**GRAVES MEDICAL AUDIOVISUAL LIBRARY**  
**(Formerly The Medical Recording Service Foundation**  
**of the Royal College of Practitioners)**  
**P.O. Box 99, Chelmsford, Essex CM2 9BJ, UK**

This is a "postal library service and educational charity, dedicated to the spread of medical knowledge throughout the world, mainly in the form of audiotape cassettes with accompanying slides." There are in fact modest hire charges, but the service is nonprofit making. An extremely well constructed catalog of 48 pages, covers most medical (and many surgical and nursing) subjects. New subjects are constantly being added.

Material on leprosy includes: 1) *Diagnosis and Management of Leprosy in the Tropics*, by Dr. S. G. Browne, 47 color slides; 2) *Bringing You Up to Date with Leprosy*, by Dr. S. G. Browne, tape only; and 3) *Common Conditions in the Eye with Leprosy*, by Dr. Margaret Brand, Carville, USA, 36 slides with printed comment, no tape.

**BOOKS, BOOKLETS AND HANDBOOKS,**  
**RECENTLY PUBLISHED**

In the English language alone, it is already becoming difficult to keep up with the production of these, but they include the following:

1. *Leprosy for Students of Medicine*, by A. Bryceson and R.E. Pfaltzgraff. Published by Churchill Livingstone, Edinburgh, 1973, but currently under revision, 152 pages, paperback, £1.50. This excellent booklet contains the combined experience of clinicians from Zaria and Garkida in Nigeria and is an essential text—especially at this low price—for both under- and post-graduates in medicine and many others. It is particularly good on immunopathology and pathogenesis.

2. *Handbook of Leprosy*, by W.H. Jopling. Published by Heinemann Medical Books Ltd., London, 91 pages, paperback, £1.20. It was first published 1971, but is presently also under revision. Originally written with medical assistants, students and practitioners in mind. Highly recommended. Apart from the usual text, references and index it has an excellent glossary of terms used in leprology.

3. *Leprosy*, by S.J.J. Yawalkar. Published by Popular Prakashan, Bombay, 1974, 144 pages, hardback, £2.00 in the UK, Rs. 40 in India. This is a comprehensive account of the subject writ-

ten for practitioners while the author was working at the skin department of the Grant Medical College in Bombay.

4. *Leprosy: Diagnosis and Management*, by C.K. Job, A.J. Selvapandian and P.V. Kurian. Published by Hind Kusht Nivaran Sangh (Indian Leprosy Association), 1 Red Cross Road, New Delhi-110001, 93 pages, paperback. Based mainly on lectures and demonstrations over a period of 15 years by Drs. Job and Selvapandian, intended for medical practitioners, medical students and paramedical workers in the field.

5. *Guide to Leprosy and Leprosy Control*, by P. Kapoor. Published by the Poona District Leprosy Committee, 593/2, Rasta Peth, Poona — 411 011, Maharashtra, India, 106 pages, paperback or hardback, the former costs Rs. 6 (USA 80 cents) and the latter Rs. 10 (USA \$1.40). A discount of 10% is given for every ten or more copies ordered. This valuable booklet has been reviewed in *The STAR* (Carville, 1977) and in *Leprosy Review* (1978). Particularly in the field of drug treatment there are some recommendations which may not be acceptable in other countries, but apart from this it is recommended highly, especially as a practical manual for leprosy control workers.

6. *Leprosy, Diagnosis and Management*, by H.L. Arnold and P. Fasal, 2nd edit., John M. Knox, ed. A monograph in *American Lectures in Dermatology*, Springfield, Illinois, Charles C. Thomas, 1973, 93 pages, 36 black and white figures and 16 color plates. Price USA \$14.75. This was fully reviewed by Dr. Olaf Skinsnes in the *International Journal of Leprosy*, Volume 42, page 216 (1974), where he wrote, "This book is a brief, succinct primer on leprosy, primarily directed towards physicians who are not primarily students of leprosy, but general practitioners, dermatologists or others who may occasionally be faced with a problem in leprosy."

7. *Leprosy for Medical Students and Practitioners*, by K. K. Koticha, 1st edit., 1978, price Rs. 12 (India), \$2 (USA), £1 (Sterling). This is a 30-page paperback, rather wider than A4 format, arising from the author's 15 years of teaching experience, and mainly intended to supplement lectures given at the Acworth Leprosy Hospital in Bombay. As the preface stresses, it is not intended to be a comprehensive account. Pages 8 and 9 contain some interesting information and maps on the distribution of leprosy in India, in Greater Bombay, and in the City of Bombay.

8. *A Window on Leprosy*, B. R. Chatterjee, ed. A Ghandi Memorial Leprosy Foundation, Silver Jubilee Commemorative Volume, January, 1978. This is a strongly-bound and well-printed book of 395 pages, produced to celebrate the Silver Jubilee with 58 contributors, all experts in the field of leprosy. Chapter headings include: Epidemiology, Pathology, Microbiology, Immunology, Treatment, Control, together with sections outlining the work of WHO, ILEP, various voluntary agencies and "Trends of Leprosy in India." Details of cost and postal charges from Dr. B.R. Chatterjee, Leprosy Field Research Unit, The Leprosy Mission, Sikra Hills, Jhalda, West Bengal 723202, India.

## INDIA: TEACHING MATERIAL AND TRAINING COURSES

Two centers in South India, listed below, offer formal courses of instruction.

The Central JALMA Institute for Leprosy in Agra (formerly the Japanese Leprosy Mission for Asia) holds courses of training for medical officers, paramedicals and technicians, and its activities were fully described in the *Leprosy Scientific Memoranda*.<sup>4</sup> Memo L-925/1 of December, 1977. The same Memoranda, in a special issue of about mid-1976, described a visit of a United States Scientific Group to Leprosy Institutions in India. Although some of these are mainly scientific, several are also concerned directly or indi-

rectly with training, and it is herewith recorded that the list included:

<sup>4</sup>*Leprosy Scientific Memoranda (LSM)*, "provides a means for scientists working on the chemotherapy of leprosy, the pharmacology of antileprosy drugs, culture techniques, and the bacteriology or immunology of leprosy, to exchange information informally and quickly with their colleagues throughout the world." Sponsored jointly by the National Institute of Allergy and Infectious Diseases and the Fogarty International Center, NIH, USPHS, DHEW. Enquiries to Dr. E.C. Chamberlayne, Project Officer, FIC, Building 31, Room 2C15, National Institute of Health, Bethesda, MD 20014 USA. To receive the LSM, one must contribute to it at least once yearly.

1. The Indian Council of Medical Research, New Delhi.
2. The All India Institute of Medical Sciences (AIIMS) Ansari Nagar, New Delhi-16.
3. The Central JALMA Institute (as noted above), P.O. Box 31, Taj Ganj, Agra 282001.
4. The Haffkine Institute, Bombay.
5. The Jamshetjee Jejeebhoy (JJ) Group of Hospitals, Bombay 8.
6. The Institute of the Foundation of Medical Research, Bombay.
7. The Acworth Leprosy Hospital, Wadala, Bombay 31.
8. The Bandorawalla Leprosy hospital, Poona.
9. The Central Leprosy Teaching and Research Institute, Chingleput, 603001, Tamil Nadu.
10. The Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Pondicherry.
11. The Schieffelin Leprosy Research Sanatorium, Karigiri, via Katpadi, 632106 Tamil Nadu.
12. The Christian Medical College Hospital, P.O. Box 3, Vellore, North Arcot.

To these one should add:

- a) The Ghandi Memorial Leprosy Training Center, Nagpur.
- b) The Greater Calcutta Leprosy Treatment and Health Education Scheme (GRE-CALTES), 14/2A, Broad Street, Calcutta 700 019.
- c) There are many other agencies, missions and voluntary organizations on which information is, at the time of writing, regrettably incomplete.

As regards texts, Professor C.K. Job has kindly supplied the following lists of those which are in use at Vellore:

1. *Guide to Leprosy and Leprosy Control*, by P. Kapoor, as listed above.
2. *Notes on Leprosy*, by Dharmendra. The office of the Director General of Health Services, Ministry of Health, New Delhi.
3. *Text Book on Leprosy*, by Dharmendra. In press.
4. *Hints on Diagnosis and Treatment of Leprosy*, by R.V. Wardekar, 1st edit., 1964.
5. *Operational Guide and Guidelines of Assessment of Leprosy Control Work in India*, 1969. From the office of the Director General of Health Services, Ministry of

Health and Family Planning and Urban Development, New Delhi.

6. *Manual for Public Health Nurses in Leprosy*, by C. D. Enna, N. H. Antia and Narendra Pandia, 1976, Hind Kusht Nivaran Sangh, 1st Red Cross Road, New Delhi — 110 COL.

7. *Textbook of Leprosy for Students and Paramedical Workers*, by R. H. Thanaraj, 1975, The Leprosy Mission, 50 Portland Place, London WIN 3DG.

### CENTERS OFFERING FORMAL COURSE OF INSTRUCTION/TRAINING

The following list is based on information received in mid-1978. Political events and inflation are liable to cause changes. Anyone wishing to apply should write formally, and well in advance, to the director concerned.

1. **Sanatorio San Francisco de Borja**  
Fontilles (Alicante) España.  
Tel: 300 de Pego  
Aeropuerto: Alicante  
Institución privada  
Fecha de fundación: 1909

#### CURSO DE FORMACION

médicos (11 días)  
inspectores de lepra (1 mes)  
paramédicos (1 mes)  
educadores de sanidad  
(1 mes)  
técnicos de laboratorio  
(1 a 2 meses)  
fisioterapeutas (?)  
misioneros (1 mes)  
estudiantes (1 mes)  
Cursos reconocidos por:  
el Director General  
de Sanidad, Escuela  
Profesional de  
Dermatología, la Orden  
de Malta.

#### PROGRAMA DE LOS CURSOS

para médicos: historia y  
epidemiología de lepra,  
bacteriología, patología,  
estudios inmunológicos  
de lepra, histopatología,  
reacciones, diagnóstico,  
tratamiento, fisioterapia,  
rehabilitación.



|                              |  |                             |   |
|------------------------------|--|-----------------------------|---|
|                              | <p>para personal auxiliar y para misioneros: información general sobre la patología, información general sobre la anatomía, registro, estadísticas, estudios inmunológicos de lepra, reacciones, diagnóstico de la enfermedad y sus diferentes formas, tratamiento, fisioterapia, educación sanitaria, rehabilitación.</p> <p><u>Fecha:</u> cursos para médicos cada dos años.</p> <p>Un curso para personal paramédico durante los años en que se ofrecen cursos para los médicos (en noviembre).</p> <p>Dos cursos (en octubre/noviembre) durante los años en que no se ofrecen cursos para los médicos.</p> |                             |   |
| REQUISITOS PARA EL INGRESO   | <p><u>Idiomas:</u> español, francés</p> <p><u>Cuota de Inscripción:</u> ninguna</p> <p><u>Alojamiento y Comida:</u> proveídos por el hospital. Becas son posibles a través de la Orden de Malta.</p>   | PROGRAMME DE COURS          | <p>spécialistes).</p> <p>Cours reconnus par le gouvernement et l'OMS.</p> <p>bactériologie, immunologie, anatomie de la lèpre, chirurgie, diagnostic positif, diagnostic différentiel, thérapeutique médicale et chirurgicale, épidémiologie, santé publique (lutte antilépreux, principes, techniques, évaluation), physiothérapie et évaluation lèpre.</p> <p><u>Date:</u> variable</p> <p>Certificat d'université (80 heures)</p> <p>Cours international OMS (2 semaines) Spécialistes lèpre. Participation à l'enseignement de la Faculté, à celui de l'Institut de Médecine Tropicale de Dakar, à celui de l'Institut de Médecine Africaine de Paris.</p> <p><u>Langue:</u> français</p> |
|                              | <p>2. <b>Institut de Leprologie Appliquée de Dakar, B. P. CD Annexe 11023, Dakar/Senegal.</b></p> <p><u>Tel:</u> 312-40</p> <p>Fondé en 1972 par l'Ordre de Malte en accord avec le gouvernement sénégalais. Institution gouvernementale et privée.</p>  | CONDITION D'ADMISSION       | <p>Frais d'Inscription: néant</p> <p>L'Institut ne s'occupe pas du séjour des étudiants.</p>  |
| COURSE DE FORMATION SPECIAUX | <p><u>médecins</u> (certificat d'université, course internationale à l'Institut de Médecine Tropicale, étudiants 4ième année).</p> <p><u>spécialiste lèpre du Sénégal</u> (une année)</p> <p><u>physiothérapeutes</u> (intégré dans le cours des</p>   | COURS DE FORMATION SPECIAUX | <p><u>contrôleurs-lèpre</u> (1 mois)</p> <p><u>paramédicaux et éducateurs sanitaires</u> (5 mois)</p> <p><u>infirmiers épidémiologistes</u> (3 semaines). il s'agit d'un cours de Santé Publique appliquée au milieu rural ouvert aux infirmiers diplômés d'état.</p>   |
|                              | <p>3. <b>Centre d'Enseignement de l'OCEAC</b></p> <p>(Organisation pour la lutte contre les endémies en Afrique Centrale) B. P. 288, Yaounde/Cameroun.</p> <p><u>Tél:</u> 22 22 32</p> <p><u>Aéroport le plus proche:</u> Yaounde Institution inter-états (fondation en 1966).</p>   |                             |   |

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| <b>PROGRAMME<br/>DE COURS</b>         | <p><u>Programme pour les contrôleurs-lèpre:</u><br/>prélèvement sur malades lépromateux, biopsie, clinique de la lèpre, troubles nerveux et trophiques, évolution clinique (complications), classification, diagnostic, épidémiologie (transmission), thérapeutique, prophylaxie de la lèpre, lutte contre la lèpre, campagnes de masse, traitement des lépreux, comptabilité (rapports), rôle du contrôleur-lèpre, travaux pratiques, revision et épreuve théorique.</p> | <b>CONDITIONS<br/>OF<br/>ADMISSION</b>   | <p><u>Language:</u> usually given in English, sometimes in French.</p> <p><u>Inscription Fee:</u> None</p> <p><u>Scholarship:</u> None</p> <p><u>Accommodation, Lodging, Meals:</u> (except for sandwich lunch on the premises) to be arranged by the student.</p> |
| <b>CONDITIONS<br/>D'ADMISSION</b>     | <p><u>Date des Cours:</u> une fois par an; en général en mai/juin après le cours de santé publique qui débute en octobre précédent.</p> <p><u>Langue:</u> français</p> <p><u>Frais d'Inscription:</u> néant</p> <p><u>Frais de Sejour:</u> à la charge des Etats</p> <p><u>Bourses d'Etudes:</u> " "</p> <p><u>Condition de Logement:</u> internat</p> <p><u>Repas:</u> les étudiants sont nourris par le centre.</p>   | <p><b>NOTE:</b> In the space of one article it would be difficult to do justice to the number and range of publications, many of them directly concerned with the teaching of leprosy from the hand of Dr. S. G. Browne, the director of this center, several of which are available in English, French, German, Spanish and Italian. In the matter of 1) staining technic, and 2) the taking, fixation and processing of biopsies, it is also worth recording here publications from this center which have appeared in <i>Leprosy Review</i>: 1) Wheeler, E. A. <i>et al.</i> An improved technic for the histopathological diagnosis and classification of leprosy, 1965, <b>36</b>: 37-39. 2) Harman, D. J. Biopsies in leprosy, 1975, <b>46</b>: 125-134.</p> | <p><b>5. PAHO/WHO Centro Internacional de Investigación y de Instrucción en Lepra y en Enfermedades Conexas,</b><br/>Apartado Postal 4043,<br/>Caracas/Venezuela.</p> <p><u>Teléfono:</u> 817095</p> <p>Institución del gobierno fundada en 1973.</p>              |
| <b>TRAINING<br/>COURSES:</b>          | <p><b>4. Leprosy Study Center,</b><br/>57a Wimpole Street,<br/>London, W1M, 7DF.</p> <p>doctors, supervisors, paramedical workers, health educators, laboratory and physiotherapy technicians. Not officially recognized. Duration varying from one day to one week or longer.</p>  | <b>CURSOS<br/>DE<br/>INSTRUCCION</b>   | <p>médicos, supervisors, paramédicos, técnicos de laboratorio y de fisioterapia. Reconocidos por el gobierno y por WHO tanto como por la universidad central. Los cursos varían desde 5 meses hasta 3 años; para paramédicos entre 3 y 6 meses.</p>                |
| <b>PROGRAM<br/>OF THE<br/>COURSES</b> | <p>Made to suit small groups of students; content of courses in accordance with needs of students.</p> <p><u>Date:</u> by arrangement</p>   | <b>PROGRAMA<br/>DE<br/>LOS CURSOS</b>  | <p><u>Curso para postgraduados en dermatología</u> (3 años)</p> <p><u>Curso para postgraduados en microbiología</u> (2 años)</p> <p><u>Curso intermedio en</u></p>   |

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|---|--|--|
| <b>REQUISITOS<br/>PARA<br/>EL INGRESO</b> | <u>Sanidad Pública</u><br><u>especializado en</u><br><u>dermatología (5 meses)</u><br><u>Idioma: español</u><br><u>Cuota de Inscripción:</u><br>ninguna<br><u>Becas: ningunas</u><br><u>Gastos de Alojamiento:</u><br>incluyendo viajes dentro<br>del país \$700,00.   | <u>its Management (1 day)</u> for<br>practicing professionals<br>or students in the medical,<br>nursing or allied health<br>disciplines; attendance<br>of appropriate professional<br>groups also is encouraged;<br>host-parasite relationships,<br>clinical aspects of leprosy,<br>hospital orientation<br>(teaching methods<br>appropriate to the<br>attending group).   |
| <b>TRAINING<br/>COURSES</b>               | 6. <b>United States Public<br/>Health Service Hospital,</b><br>Carville, Louisiana 70721,<br>USA.<br><u>Phone: 504-642-5421</u><br><u>Nearest airport:</u><br>New Orleans International.<br>Government institution<br>founded in 1894.<br><br>doctors, surgeons,<br>supervisors, paramedical<br>workers, health educators,<br>lab. and physiotherapy<br>techn. Duration of the<br>courses is variable.<br>Courses are recognized by<br>government, American<br>Medical Association and<br>Academy of Family<br>Practice.                               | <b>CONDITIONS<br/>FOR<br/>ADMISSION</b>  |
| <b>PROGRAM<br/>OF THE<br/>COURSES</b>     | a) <u>Seminar on Leprosy and<br/>its Management (2½ days)</u><br>for doctors and other<br>medical specialists;<br>hospital orientation, host-<br>parasite relationship,<br>clinical aspects, treatment,<br>complications, case<br>presentation,<br>rehabilitation aspects, eye<br>problems, hand/foot care,<br>histopathology, workshop,<br>case presentation,<br>epidemiology and control,<br>dermatological aspects,<br>differential diagnosis,<br>summary.<br>Usually three courses a year<br>(dates variable).<br>b) <u>Seminar on Leprosy and</u> | 7. <b>Central Leprosy Teaching<br/>&amp; Research Institute</b><br><b>Chingleput, 603001 Madras,</b><br>South India.<br><u>Phone: 274 (Chingleput)</u><br><u>Nearest airport: Madras</u><br>Institution of the<br>Government of India,<br>Ministry of Health and<br>Family Planning founded<br>in 1955.<br><br><u>doctors (1 to 2 years)</u><br><u>surgeons (6 days to 6 weeks;</u><br><u>refresher course)</u><br><u>supervisors (4 months;</u><br><u>2 courses/year)</u><br><u>paramedical workers</u><br><u>(6 months; 2 courses/year)</u><br><u>lab. techn. (6 months;</u><br><u>2 courses/year)</u><br><u>phys. techn. (9 months)</u><br>The institute receives also:<br>undergraduate medical<br>students, health visitors,<br>sanitary inspectors and<br>nursing students on a one<br>day visit program.<br>All courses are recognized<br>by the government and<br>WHO. |

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| <b>PROGRAM OF THE COURSES</b>  | no details  |  |                         |                                | Reactivations, Relapses, Supervision and Technical Guidance, Training in the Center and in the Field, "On the Job" Training for Paramedical Workers, General Public Health, First Contact with Leprosy Patients, Case Detection, Case Holding, Tracing of Absentees, General Health Education, Health Education in Leprosy, Care of Hand and Feet, Grading of Disabilities, Recording and Reporting, BCG Vaccination and Prevention. |
| <b>CONDITIONS OF ADMISSION</b> | <u>Date:</u> varying each year<br><u>Language:</u> English<br><u>Inscription Fee:</u> none<br><u>Scholarships:</u> not available<br><u>Accommodation Expenses:</u> varying from Rs. 5, — to Rs. 1, — per person per day<br><u>Lodging and Meals:</u> can be arranged with staff canteen on payment.   |  |                         |                                | <u>Date:</u> for doctors and supervisors: 8 to 10 courses per year; for paramedical workers: 10 to 20 courses per year.  |
|                                | <b>8. Pusat Latihan Kusta Nasional</b> (National Leprosy Training Center), P.O. Box 95, Ujung Pandang, Indonesia.<br><u>Phone:</u><br><u>Nearest airport:</u> Ujung Pandang<br>Government institution (financially supported by private organizations), founded in 1975.  |  |                         | <b>CONDITIONS OF ADMISSION</b> | <u>Language:</u> Indonesian<br><u>Inscription Fee:</u> none<br><u>Accommodation Expenses:</u> free of charge in center building; lodging free.<br><u>Meals:</u> provided by center, free of charge.  |
| <b>TRAINING COURSES</b>        | <u>doctors</u> (2½ weeks)<br><u>supervisors</u> (1 month)<br><u>paramedical workers</u> (3 days) (all categories).<br><u>lab techn. and physioth. techn.</u> receive training by directorate of Health Laboratory Services and by the rehabilitation center "Sitamala" Tangerang, W. Jawa, Indonesia, respectively. All courses are recognized by the government and WHO. |  |                         |                                | <b>9. Schieffelin Leprosy Research Center, S.I.R.</b> Sanatorium P.O., via Katpadi, 632 106 N.A. District, Tamil Nadu, South India.<br><u>Phone:</u> Vellore 21522/21525<br><u>Nearest airport:</u> Madras<br>Private institution founded in 1955.   |
| <b>PROGRAM OF THE COURSES</b>  | History of Leprosy and Leprosy Control in Indonesia, General Approach to Leprosy Control, Clinical Manifestations of Leprosy, Diagnosis and Classification, Methods of Leprosy Examination (skin, nerves anesthesia), Smear Taking, Treatment, Reactions, Inactivity,   |  | <b>TRAINING COURSES</b> |                                | <u>doctors</u> (6 weeks x 2, 1 week x 4)<br><u>surgeons</u> (6 months to 1 year)<br><u>supervisors</u> (4 months)<br><u>paramedical workers</u> (6 months x 2)<br><u>lab. techn.</u> (smears 3 months, gen. 1 year)<br><u>prothetic techn.</u> (18 months)<br><u>shoe makers</u> (6 months)<br>Course for surgeons recognized by the   |

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|                               | government and WHO; courses for doctors, supervisors, paramedical workers and laboratory technician recognition applied for and pending.  |                                 | July every year.<br><u>Language</u> : English  |
| <b>PROGRAM OF THE COURSES</b> | <p>Introductory Courses in Leprosy (6 days) intended for general medical practitioners who will be including leprosy work in their practice (courses in February, June, September, November).</p> <p><u>Certificate Courses in Leprosy</u> (6 weeks); intended primarily for doctors, but senior nurses training for full time responsibility in leprosy institutions are also accepted. It teaches clinical leprosy, diagnosis and comprehensive treatment including complications (courses in February, March and July, August).</p> <p><u>Course in the Management of Ophthalmic Manifestations of Leprosy</u> (1 week); doctors and senior responsible personnel, one course in January.</p> <p><u>Paramedical Workers Courses</u> (6 months); training for village level workers, curriculum recognized by the government (1 course Oct. to March).</p> <p><u>Rehabilitation Technician Course</u> (1 year); for field oriented persons whose assignment is to detect, prevent and treat deformity at its earliest manifestation (course starts in April).</p> <p><u>Rehabilitation Technician Upgrading Course</u> (3 months) October to December.</p> <p><u>Shoe Maker's Course</u> (4 months) three courses.</p> <p><u>Orthopedic Technician Course</u> (2 years) starts in</p> | <b>CONDITIONS FOR ADMISSION</b> | <p><u>Inscription Fee</u>: Rs. 10, —</p> <p><u>Accommodation Expenses</u>: guest house: Rs. 2 per day; Rs. 20 per month for those not living in guest house (quarters given).</p> <p><u>Scholarships</u>: for inservice training; salaried appointments are available for one trainee in the departments of surgery, medicine and ophthalmology.</p>   |
|                               |   | <b>TRAINING COURSES</b>         | <p>10. <b>All Africa Leprosy and Rehabilitation Training Center (ALERT)</b>, P.O. Box 165, Addis Ababa, Ethiopia.<br/><u>Phone</u>: 448175 and 6<br/>Private institution founded in 1965.</p> <p><u>doctors</u> (1 month to 1 year) physicians, specialists and generalists in leprosy control.</p> <p><u>surgeons</u> (3 months to 1 year)</p> <p><u>supervisors</u> (3 months)</p> <p><u>paramedical workers</u> (3 months)</p> <p><u>lab. technicians</u> (1 to 6 months)</p> <p><u>phys.</u> (9 months)</p> <p><u>medical students</u> (2 weeks)</p> <p><u>trainers for paramedicals</u> (2 weeks)</p> <p><u>management for doctors</u> (1 week)</p> <p><u>nurses</u> (1 to 3 months)</p> <p><u>physiotherapists</u> (6 weeks)</p> <p><u>research physicians</u> (1 week to 6 months)</p> <p>Except for the course for paramedical workers there is no official recognition, but the government as well as WHO sends trainees.</p> |



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| <b>PROGRAM<br/>OF THE<br/>COURSES</b>   | <u>Rural Area Supervisors<br/>Course (January-April 77)</u><br><u>Seminar on Teaching and<br/>Training Medical<br/>Auxiliaries (April 1976-1977)</u><br><u>Leprosy Control for<br/>Expatriate Medical<br/>Auxiliaries (April 1976-77)</u><br><u>Physiotherapy in Leprosy<br/>Course (September-<br/>November 1976-77)</u><br><u>Introduction to Clinical<br/>Leprology (October 1976-<br/>77) for doctors.</u><br><u>Rehabilitation Technicians<br/>Course (November 1976-<br/>May 1977) physiotherapy<br/>or orthopedic appliance<br/>workshop.</u><br><u>Language: English</u> | <u>Accommodation Expenses:</u><br>Eth. \$13,-- per day.<br><u>Lodging:</u> in the hostel,<br>single rooms in four-roomed<br>cottages on the campus,<br>maximum 28 by doubling<br>up, and use of staff houses<br>up to 40 possible.<br><u>Meals:</u> European style.  |
| <b>CONDITIONS<br/>FOR<br/>ADMISSION</b> | <u>Inscription Fee:</u> none<br><u>Scholarships:</u> small fund<br>(Eth. \$10,000) per year<br>available; majority of<br>trainees funded by WHO,<br>sending governments and<br>ILEP members.   | 11. <b>Institut Marchoux</b> , B. P. 251, Bamako,<br>Mali, Africa, under the direction of Professeur<br>Pierre Saint-André, is actively engaged in the<br>teaching of leprosy and tropical dermatology.<br>This is entirely in the French language and<br>orientated towards participation in the<br>OCOG (Organisation de Cooperation et de<br>Coordination pour la Lutte contre les Grandes<br>Endemies). Courses are arranged for nurses,<br>medical assistants, medical students and doc-<br>tors; further details are available from the direc-<br>tor, as above.<br><br>NOTE: in September 1978, political and mil-<br>itary disturbances in Ethiopia are most likely to<br>disrupt this center's activities, and it may have<br>to close. |

### MISCELLANEOUS

The following three books deal mainly with the historical aspects of leprosy:

1. *Leprosy in England*, by Dr. S. G. Browne, Director, Leprosy Study Center, 57a Wimpole Street, London W1M 7DF. A 47-page paperback of small format, well illustrated, which gives a fascinating account of the development, spread and eventual decline of leprosy in the UK. Price: 25p, plus 7p or 9p for postage in the UK, or 20p airmail overseas.

2. *The Fight Against Leprosy*, by Patrick Feeney, Elek Books, 1964, 191 pages, with illustrations. This is unfortunately out of print, but is not difficult to find in libraries and teaching centers. It is highly readable, well referenced and accurate; although now out of date, it is probably the best general account, certainly in English, of the historical development of the fight against this disease.

3. *The Medieval Leper and His Northern Heirs*, by Peter Richards. Published by D. S. Brewer Ltd., Cambridge, UK, and Rowman and Littlefield, New Jersey, USA, 1977, price £6. This is a profusely illustrated and fascinatingly written account of the story of leprosy in Britain and Scandinavia up to the end of the 19th century.

### COMMERCIALY PRODUCED FILMS ON LEPROSY

Science Service Berlin has produced three films on leprosy:

1. *Leprosy* (½" Philips magnetic tape or 16 mm Eastman-Color Kodak, color-sound, 30 minutes.)

2. *The Treatment of Leprosy* (24 minutes, color-sound).

3. *Rehabilitation of Leprosy Patients* (24 minutes, color-sound).

Please write for details to Science Service Berlin, Thomasiusstrasse 11, 100 Berlin 21, Germany. [It appears from the brochures that these films are for outright sale, not for hire.]

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