



LACTRIMS

LATIN AMERICAN COMMITTEE FOR TREATMENT
AND RESEARCH IN MULTIPLE SCLEROSIS

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Universidad
Interamericana de Panamá
LAUREATE INTERNATIONAL UNIVERSITIES*



Sección
Neuroepidemiología
Instituto de Neurología
Facultad de Medicina
Montevideo – Uruguay



Panamerican Society of Neuroepidemiology
Sociedad Panamericana de Neuroepidemiología



1989

I LATIN AMERICAN COURSE OF NEUROEPIDEMIOLOGY

HOTEL RIU PANAMÁ

APRIL 1 – 7, 2018

Pre-Registration: www.neuroepidemiologia.edu.uy/

ORGANIZATION:

- COMITÉ EJECUTIVO DE LACTRIMS

COORDINATION:

- **Dr. Fernando Gracia**
UNIVERSIDAD INTERAMERICANA DE PANAMÁ, PANAMÁ, COMITÉ EJECUTIVO DE LACTRIMS
- **Dr. Carlos N. Ketzoian**
SECCIÓN NEUROEPIDEMIOLOGÍA, INSTITUTO DE NEUROLOGÍA, MONTEVIDEO, URUGUAY
- **Dr. Mario O. Melcon**
F.I.N.E.P. (Fundación para la Investigación en Neuroepidemiología), JUNÍN, ARGENTINA

TEACHING TEAM:

- **Professor WALTER A. ROCCA**
M.D., M.P.H., PROFESSOR OF EPIDEMIOLOGY AND NEUROLOGY, MAYO CLINIC, COLLEGE OF MEDICINE AND CO-DIRECTOR OF THE ROCHESTER EPIDEMIOLOGY PROJECT, ROCHESTER, MINNESOTA, U.S.A.
- **Professor GIANCARLO LOGROSCINO**
DIRECTOR OF THE DEPARTMENT OF CLINICAL RESEARCH IN NEUROLOGY, UNIVERSITY OF BARI, FONDAZIONE PANICO TRICASE, ITALY.
- **Professor PIERRE MARIE PREUX**
DIRECTOR OF THE INSTITUT OF NEUROEPIDEMIOLOGY AND TROPICAL NEUROLOGY (IENT), LIMOGES, FRANCE.
- **Professor RUTH OTTMAN**
Ph. D. PROFESSOR OF EPIDEMIOLOGY IN NEUROLOGY AND THE SERGIEVSKY CENTER. DEPUTY DIRECTOR FOR RESEARCH, G.H. SERGIEVSKY CENTER. COLUMBIA UNIVERSITY. NEW YORK. U.S.A.
- **Professor FELICITY ENDERS**
Ph. D. PROFESSOR OF BIostatISTICS, MAYO CLINIC COLLEGE OF MEDICINE, ROCHESTER, MINNESOTA, U.S.A.

Language

English.

Objectives of the course

- To discuss the characteristics of different types of epidemiologic studies: population surveys, analytic studies, and clinical trials, with particular emphasis in multiple sclerosis.
- To introduce students to genetic epidemiology and to understand the bases of gene-environment interaction.
- To review the main aspects of statistics applied to epidemiological research, with emphasis on importance versus significance, and confounding factors and interaction.
- To exchange experiences and opinions between researchers on MS in Latin America, and to discuss the opportunity and feasibility of a multicentric survey in the region.
- To give the opportunity to discuss neuroepidemiological studies in different phases of development (preparation, implementation, data analysis, etc.) with researchers with experience

The complex building of current clinical research continues to stand on four methodological pillars – the population surveys, the case-control study, the cohort study and the clinical trial. These four methods, along with their combinations and modifications, enable us to investigate any possible cause-effect relationship across 1) biological, personal, or social factors or events, 2) symptoms, diseases, or conditions, and 3) treatments, procedures, or interventions. This 5 day course provides a review of the four methods, with emphasis on their complementarities and their relative strengths and weaknesses. As such, the course will enable the participants to better understand how evidence is constructed in clinical research. Participants will improve their ability to design, conduct, and interpret studies, and to write and read scientific papers and grant applications.

Methodology

The course methodology is based on:

- Lectures
- Discussion of examples of different types of studies
- Analysis of papers published with different study designs
- Presentation of neuroepidemiological surveys carried on in Latin America by the authors
- Discussion in workshops

A syllabus will be distributed to participants before the start of the course

Participants

Minimum 30

Maximum 50

Program

DAY 1 – Sunday, April 1, 2018

ARRIVAL AND ACCOMMODATION

DAY 2 – Monday, April 2, 2018

Morning – SURVEYS IN NEUROEPIDEMIOLOGY (8:30 am – 12:15 pm)

8:30 am – 8:40 am – WELCOME – *DR. PATRICIO ABAD (ECUADOR, LACTRIM'S PRESIDENT)*

8:40 am – 9:00 am – INTRODUCTION TO THE COURSE - *WALTER ROCCA*

9:00 am – 9:45 am – BASIC IDEAS AND TERMINOLOGY - *WALTER ROCCA*

9:45 am – 10:30 am – POPULATION SURVEYS (PART 1) - *WALTER ROCCA*

10:30 am – 11:00 am – Coffee Break

11:00 am – 11:45 am – POPULATION SURVEYS (PART 2) - *WALTER ROCCA*

11:45 am – 12:15 pm – GENERAL DISCUSSION

12:15 pm – 2:00 pm – Lunch Break

Afternoon – (2:00 pm – 6:30 pm)

2:00 pm – 3:30 pm – HOW TO READ A PAPER – a descriptive survey - *WALTER ROCCA*

3:30 pm – 4:15 pm - NEUROEPIDEMIOLOGIC STUDIES IN DEVELOPING COUNTRIES - *PIERRE MARIE PREUX*

4:15 pm – 4:30 pm – Coffee Break

4:30 pm – 4:50 pm – MS IN LATIN AMERICA: ACHIEVEMENTS – *PATRICIO ABAD (ECUADOR)*

4:50 pm – 6:30 pm - SURVEYS IN MULTIPLE SCLEROSIS IN LATIN AMERICA –

Presentations of descriptive surveys in Latin America by the authors (5 presentations - 10 minutes for each presentation) – GUATEMALA, HONDURAS, COSTA RICA, ECUADOR AND URUGUAY.

DAY 3 – Tuesday, April 3, 2018

Morning – ANALYTIC STUDIES (9:00 am – 12:15 pm)

9:00 am – 9:45 am – ANALYTIC STUDIES: OVERVIEW - *WALTER ROCCA*

9:45 am – 10:30 am – CASE-CONTROL STUDIES - *WALTER ROCCA*

10:30 am – 11:00 am – Coffee Break

11:00 am – 11:45 am – COHORT STUDIES - *WALTER ROCCA*

11:45 am – 12:15 pm – GENERAL DISCUSSION

12:15 pm – 2:00 pm – Lunch Break

Afternoon – (2:00 pm – 6:30 pm)

2:00 pm – 3:30 pm – HOW TO READ A PAPER – a case-control study - *WALTER ROCCA*

3:30 pm – 4:15 pm – CAPTURE – RECAPTURE METHOD - *PIERRE MARIE PREUX*

4:15 pm – 4:30 pm – Coffee Break

4:30 pm – 5:00 pm – NATURAL HISTORY AND DIAGNOSTIC CRITERIA OF M.S. – *Dr. Victor Rivera (Mexico)*

5:00 pm – 5:30 pm – RISK FACTORS IN M.S. - *Dr. Victor Rivera (Mexico)*

5:30 pm – 6:00 pm – GENETIC EPIDEMIOLOGY IN M.S. - *Dr. Victor Rivera (Mexico)*

6:00 pm – 6:30 pm – DISCUSSION

DAY 4 – Wednesday, April 4, 2018

Morning – PROYECTO: FOCEM (9:00 am – 12:15 pm)

“FORO CENTROAMERICANO DE LA ESCLEROSIS MÚLTIPLE” – *Coordinator: Doctor Fernando Gracia (Panamá)*

9:00 am – 9:30 Presentación Conceptual FOCEM - Doctor Fernando Gracia (Panamá)

9:30 am-10:30 Lanzamiento plataforma FOCEM - Sr. Edgardo Artavia Bonilla

10:30 am – 11:00 am – Coffee Break

11:00 am - 12:00 Instalación y juramentación de Junta Coordinadora FOCEM, Dr. Fernando Gracia.

12:00 md – 12:15 Clausura por parte del Dr. Victor M Rivera, M.D., FAAN, asesor de FOCEM.

12:15 pm – 2:00 pm – Lunch Break

Afternoon – (2:00 pm – 6:30 pm)

Free Presentations

DAY 5 – Thursday, April 5, 2018

Morning – CLINICAL TRIALS (9:00 am – 12:30 pm)

9:00 am – 9:45 am – CLINICAL TRIALS (PART 1) - *GIANCARLO LOGROSCINO*
9:45 am – 10:30 am – CLINICAL TRIALS (PART 2) - *GIANCARLO LOGROSCINO*
10:30 am – 11:00 am – GENERAL DISCUSSION
11:00 am – 11:30 am - Coffee Break
11:30 am – 12:15 pm – INFERENCES FROM EPIDEMIOLOGIC RESEARCHES - *GIANCARLO LOGROSCINO*

12:15 pm – 2:00 pm – Lunch Break

Afternoon – (2:00 pm – 6:30 pm)

2:00 pm – 3:30 pm – HOW TO READ A PAPER – a clinical trial - *GIANCARLO LOGROSCINO*
3:30 pm – 4:15 pm - HOW TO READ A PAPER – a cohort study - *WALTER ROCCA*
4:15 pm – 4:30 pm – Coffee Break
4:30 pm – 5:15 pm - HOW TO READ A PAPER – a cohort study (continuation) - *WALTER ROCCA*
5:15 pm – 6:30 pm – Questions and answers about Methodology in Neuroepidemiology

DAY 6 – Friday, April 6, 2018

Morning – STATISTICS AND EPIDEMIOLOGY (9:00 am – 12:15 pm)

9:00 am – 9:45 am – USE AND MISUSE OF STATISTICS IN EPIDEMIOLOGY - *FELICITY ENDERS*
9:45 am – 10:30 am – IMPORTANCE VERSUS SIGNIFICANCE - *FELICITY ENDERS*
10:30 am – 11:00 am – Coffee Break
11:00 am – 11:45 am – CONFOUNDING AND INTERACTION - *FELICITY ENDERS*
11:45 am – 12:15 pm – GENERAL DISCUSSION

12:15 pm – 2:00 pm – Lunch Break

Afternoon – (2:00 pm – 6:30 pm)

2:00 pm – 4:00 pm – WORK IN PROGRESS: TOWARD TO A MULTICENTER COLLABORATIVE STUDY IN M.S. IN LATIN AMERICA – Introduction and general proposal – *Presentation: Carlos Ketzoian – Mario O. Melcon*
4:00 pm – 4:30 pm – Coffee Break
4:30 pm – 6:30 pm – WORK IN PROGRESS: TOWARD TO A MULTICENTER COLLABORATIVE STUDY IN M.S. IN LATIN AMERICA – Incidence studies and Case-Control studies – General Discussion – *Coordination Carlos Ketzoian – Mario O. Melcon*

DAY 7 – Saturday, April 7, 2018

Morning – GENETIC EPIDEMIOLOGY (9:00 am – 12:15 pm)

9:00 am – 9:45 am – INTRODUCTION TO GENETIC EPIDEMIOLOGY (PART 1) - *RUTH OTTMAN*

9:45 am – 10:30 am – INTRODUCTION TO GENETIC EPIDEMIOLOGY (PART 2) - *RUTH OTTMAN*

10:30 am – 11:00 am – Coffee Break

11:00 am – 11:45 am – GENE-ENVIRONMENT INTERACTION - *RUTH OTTMAN*

11:45 am – 12:15 pm – GENERAL DISCUSSION

12:15 pm – 2:00 pm – Lunch Break

Afternoon – (2:00 pm – 6:30 pm)

2:00 pm – 4:00 pm – WORK IN PROGRESS: TOWARD TO A MULTICENTER COLLABORATIVE STUDY IN M.S. IN LATIN AMERICA – General discussion - *Coordination Carlos Ketzoian – Mario O. Melcon*

4:00 pm – 4:30 pm – Coffee Break

4:30 pm - 6:00 pm – WORK IN PROGRESS: TOWARD TO A MULTICENTER COLLABORATIVE STUDY IN M.S. IN LATIN AMERICA – Conclusions

Coordination Carlos Ketzoian – Mario O. Melcon

6:00 pm – 6:30 pm – CLOSURE OF THE COURSE

Closing dinner

DAT 8 – Sunday, April 8, 2018

DEPARTURE

With the endorsement of the WFN



WORLD FEDERATION
OF NEUROLOGY