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, FONDAAZIONE 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