# SYLLABUS

Marrakesh, Morocco, November 12-17, 2011

## XX<sup>th</sup> WORLD CONGRESS OF NEUROLOGY







WCN Education Program Sunday, 13 November, 2011 09:00-12:30

#### NEUREPIDEMIOLOGY

Chairperson: **Gustavo Roman**, USA

- 09:00 INTRODUCTION TO STUDY DESIGN IN NEUROLOGY, PART 1 Walter Rocca, USA
- 09:45 INTRODUCTION TO STUDY DESIGN IN NEUROLOGY, PART 2 Walter Rocca, USA
- 10:30 Coffee Break
- 11:00 STROKE EPIDEMIOLOGY IN DEVELOPING COUNTRIES Gustavo Roman, USA
- 11:45 EPIDEMIOLOGY OF NEUROHIV IN AFRICA Yomi Ogun, Nigeria



### Introduction to Study Design: Part 1

Walter A. Rocca, MD, MPH College of Medicine, Mayo Clinic Rochester, MN - USA

When the student is ready, the teacher will appear (Chinese proverb)

- Structure of the presentation
  - Definitions
  - Complex diseases
  - Epidemiology
  - Causes and effects
  - Study design
  - Clinical trial



































### Summary of part 1

- Definitions
- Complex diseases
- Epidemiology and tools
- Causes and effects beliefs
- Study design and evidence
- Clinical trial randomization





Randomization and its discontents (Paraphrase of Sigmund Freud)



- Clinical study design
- Closing advice







































# The lesson from the lotus flower

Design the best possible study (lotus flower) despite the unavoidable uncertainties (roots in the mud at the bottom of the pond)