



INTERNATIONAL INTERNSHIPS

FOM INTERNATIONAL PROGRAMS IN SPAIN (MADRID)

Type of activity: Seminars, practical cases, and problems

Title: Consumption of drugs of abuse and associated neurological alterations

Professor: Fernando Bandrés Director of the Gregorio Marañón Study Center. Professor at the Faculty of Medicine of the Complutense University, Madrid

Language: Spanish

Number of students: 10-15

Location: Department of Legal Medicine, Psychiatry and Pathology, Faculty of Medicine, Complutense University, Madrid.

Summary:

The consumption of drugs of abuse has increased in recent years in Europe among adolescent and adult population while new patterns and forms of consumption are being determined. Presently, we know in great details the biochemical and pharmacological mechanisms of action and effects that different drugs, and their forms of consumption, have on the body, one of the most relevant being the biochemistry and biopathology of the consumption of alcohol, cannabis, cocaine as well as analgesic and anxiolytic drugs. The effects on the nervous system, both in the short and long term, have become one of the greatest challenges and advances in neuroscience, which makes it possible to explain many of the symptoms and diseases associated with acute and chronic consumption, and especially those related with psycho-neuropathology. The relevant social and health repercussions of these new forms of consumption in Europe and in the world require increasingly detailed scientific knowledge to develop new forms of prevention and treatment of these addictions.

Activities:

The students will analyze and study two practical clinical cases with the following objectives:

- To acquire knowledge and skills related to the analysis of the case, assessment of signs and symptoms as well as interpretation of the instrumental techniques used for the investigation, medical diagnosis of each case as well as analytical techniques and instrumentation on the investigation of drugs of abuse and pharmaceuticals.
- To acquire practical skills in the interpretation of results and their applications in medical diagnosis, especially in the field of neuroscience, and their neuropsychic effects.

- To perform an evaluation and comparison of the analyzes carried out with the results of the working group. Critical analysis of the bibliography used in each case.
- The students will use clinical histories and documentation of real cases.