Confocal Microscopy: Integration in Clinical Practice
Residents and Specialists Course | 19-20 April 2024 | Madrid, Spain

Course description
Reflectance Confocal Microscopy is a non-invasive imaging technique that enables obtaining precise information at subcellular level in real-time. In this course, we will describe the fundamental principles for confocal imaging of human skin in vivo, the major live microscopic features that characterize benign and malignant skin conditions, and its potential to monitor dynamic processes. In addition to, how to integrate this tool in clinical practice with real examples will be also discussed.

After the course, attendees will understand the basics principles of in vivo and ex vivo confocal microscopy, identify features of common inflammatory conditions and tumors of benign and malignant nature and integrate this technology in routine clinical workflow.

Learning Objectives
1. Understand the fundamentals of in-vivo and ex-vivo confocal microscopy;
2. Identify confocal features of benign and malignant skin tumors;
3. Identify confocal features of inflammatory conditions and infections;
4. Integrate in-vivo confocal microscopy in common clinical situations;
5. Understand ex-vivo confocal microscopy in dermatology surgery including Mohs Surgery.

Faculty
Chairs: Salvador González
Speakers: Marco Ardigo; Reyes Gamo; Melissa Gill; Francesco Lacarrubba; Javiera Pérez-Anker
Tutors: Gonzalo Segurado; Virginia Velasco

Programme
Friday, 19 April 2024
09:00-09:15 Introduction & Welcome
S. González
09:15-09:30 Pre-Course Kahoot Quiz (Evaluation)
S. González, V. Velasco
09:30-10:15 Fundamentals: Equipment, Basic Optical Parameters of In-Vivo and Ex-Vivo Confocal Microscopy
S. González, J. Pérez-Anker

SECTION A. Glossary and Confocal Patterns
10:15-10:30 Inflammatory Lesions Patterns
F. Lacarrubba
10:30-10:45 Non-Melanocytic Tumors
M. Gill
10:45-11:00 Melanocytic Tumors
R. Gamo
11:00-11:30 Coffee Break
SECTION B1. Confocal Features and Algorithms. Inflammatory Conditions
11:30-12:00  Inflammatory Cutaneous Disorders  
  F. Lacarrubba
12:00-12:20  Scalp and Hair Diseases  
  M. Ardigo
12:20-12:40  Infections  
  F. Lacarrubba
12:40-13:10  Interactive Clinical Cases  
  M. Ardigo, F. Lacarrubba, S. González, V. Velasco
13:10-14:10  Lunch Break

14:10-14:30  Benign Non-Melanocytic Tumors  
  M. Ardigo
14:30-15:00  Basal Cell Carcinomas  
  S. González
15:00-15:30  Squamous Cancers  
  M. Ardigo
15:30-16:00  Coffee Break
16:00-17:00  Interactive Clinical Cases  
  M. Ardigo, S. González, G. Segurado, V. Velasco

SECTION B3. Ex-Vivo Confocal Features in Non-Melanocytic Tumors
17:00-17:15  Ex-Vivo Confocal in Dermatology Surgery: Protocols  
  J. Pérez-Anker
17:15-17:45  Basal Cell Carcinomas  
  J. Pérez-Anker
20:30-22:30  Networking Dinner with Faculty and Participants

Saturday, 20 April 2024
09:00-09:30  Squamous Cell Carcinoma and Other Lesions  
  J. Pérez-Anker

SECTION B4. Confocal Features and Algorithms in Melanocytic Tumors
09:30-10:00  Common Acquired and Congenital Nevi  
  R. Gamo
10:00-11:00  Dysplastic Nevi and Melanoma  
  M. Gill
11:00-11:30  Coffee Break
11:30-12:00  Lentigo Maligna and Lentigo Maligna Melanoma  
  R. Gamo
12:40-13:00  Interactive Clinical Cases  
  M. Gill, R. Gamo, G. Segurado, V. Velasco
13:00-14:00  Lunch Break

SECTION C. Integrating Confocal Microscopy in Clinical Workflow
14:00-15:30  Integrating Confocal Microscopy in Clinical Workflow  
  M. Gill, M. Ardigo, F. Lacarrubba, R. Gamo, G. Segurado, J. Pérez-Anker, S. González
SECTION D. Practical Session with Real-Time Image Acquisition on Patients in Clinic

15:30-17:00  Practical Session with Real-Time Image Acquisition on Patients in Clinic  
G. Segurado, V. Velasco

17:00-17:30  Post-Course Kahoot Quiz (Evaluation)  
G. Segurado, V. Velasco

17:30-18:00  End of the Course and Farewell  
S. González

The programme might be subject to changes.

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