

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 Gamó; 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. Gamó

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**

SECTION B2. Confocal Features and Algorithms. Non-Melanocytic Tumors

- 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.

EADV Headquarters

Via S. Balestra 22B
6900 Lugano, Switzerland
Tel. +41 91 973 45 20
education@eadv.org - www.eadv.org