

Non-Invasive Imaging in Dermatology

Residents and Specialists Course | 22-24 November 2023 | Brussels, Belgium

Course description

The course has the goal to give the participants a complete overview of the current techniques of non-invasive skin imaging, namely dermoscopy, reflectance confocal microscopy, conventional optical coherence tomography (cOCT), line-field confocal optical coherence tomography (LC-OCT), as well as high-frequency and ultra-high frequency ultrasound. Dermoscopic and histopathological correlations will be also part of the course.

Practicality and interaction will be key characteristics of the course: differential diagnoses, clinical cases, questions, and a continuous stimulation of the audience will be provided from the speakers during their talks. Moreover, at the end of each session, there will be a “test-your-knowledge” survey with a quiz-based competition, during which participants will be able to provide their answers via their smartphones. Also, a live “hands-on-machine” experience with patients will be offered on the last day of the course. The course will end with a session dedicated to the participants, during which they will be able to present their own clinical cases for discussion with the faculty.

Learning objectives

Confirm and acquire theoretical and practical knowledge of:

- Dermoscopy
- Reflectance confocal microscopy
- OCT and LC-OCT
- (Ultra) high frequency ultrasound

Faculty

Chairs:	Mariano Suppa, Elisa Cinotti
Speakers:	Philippe Bahadoran, Josep Malvehy, Giovanni Pellacani, Julia Welzel
Tutors:	Linda Tognetti, Sandra Schuh, Jilliana Monnier
Local assistants:	Lucas Boussingault, Gwendoline Diet, Clement Lenoir, Margot Fontaine, Lyna Mtimet, Carmen Orte Cano

Programme

Wednesday, 22 November 2023

- 14:00-14:15 Welcome & introduction
Mariano Suppa, Elisa Cinotti
- 14:15-15:00 Non-invasive imaging in dermatology: from colours to cells, from human to artificial intelligence
Josep Malvehy
- 15:00-15:30 Dermoscopy and its histopathological correlates: a window on reality
Philippe Bahadoran
- 15:30-16:00 Dermoscopy of benign and malignant melanocytic lesions
Giovanni Pellacani
- 16:00-16:30 Total body photography and video-dermoscopy
Josep Malvehy
- 16:30-16:45 **Coffee break**
- 16:45-17:15 Dermoscopy of non-melanocytic lesions: basal cell carcinoma
Mariano Suppa
- 17:15-17:45 Dermoscopy of non-melanocytic lesions: actinic keratosis, Bowen's disease, squamous cell carcinoma
Mariano Suppa
- 17:45-18:15 Dermoscopy of inflammatory, infectious, and paediatric conditions
Linda Tognetti
- 18:15-18:30 Artificial Intelligence for dermoscopy: applications, challenges, and perspectives
Jilliana Monnier
- 18:30-19:00 Test your knowledge: a dermoscopy quiz
Sandra Schuh, Jilliana Monnier, Linda Tognetti

Thursday, 23 November 2023

- 08:30-09:10 Reflectance confocal microscopy: a new era for the diagnosis of melanocytic skin tumours
Giovanni Pellacani
- 09:10-09:30 Is lentigo maligna the best application for confocal microscopy and high-magnification dermoscopy?
Elisa Cinotti
- 09:30-10:00 In vivo confocal microscopy for non-melanocytic benign and malignant skin tumours
Giovanni Pellacani
- 10:00-10:30 Mucosal, infectious and inflammatory conditions: the role of *in vivo* confocal microscopy
Elisa Cinotti
- 10:30-11:00 Ex vivo confocal microscopy: from dermatology to pathology
Josep Malvehy
- 11:00-11:30 **Coffee break**
- 11:30-12:00 Test your knowledge: a confocal quiz!
Giovanni Pellacani, Jilliana Monnier
- 12:00-12:30 Optical coherence tomography in dermatology: a love story
Julia Welzel
- 12:30-13:00 Indications and limitations of conventional and dynamic OCT
Sandra Schuh
- 13:00-14:00 **Lunch break**

- 14:00-14:40 Line-field confocal optical coherence tomography: introduction and basal cell carcinoma
Mariano Suppa
- 14:40-15:00 Line-field confocal optical coherence tomography: actinic keratosis, Bowen's disease, squamous cell carcinoma
Elisa Cinotti
- 15:00-15:30 Line-field confocal optical coherence tomography of melanocytic lesions in comparison with confocal microscopy and OCT
Sandra Schuh
- 15:30-16:00 Line-field confocal optical coherence tomography of other dermatological conditions
Linda Tognetti
- 16:00-16:30 **Coffee break**
- 16:30-17:00 Line-field confocal optical coherence tomography of basal cell carcinoma: one-stop shop with the guidance of artificial intelligence
Julia Welzel
- 17:00-17:30 Test your knowledge: an OCT/LC-OCT quiz
Lucas Boussingault, Gwendoline Diet, Clement Lenoir, Margot Fontaine, Lyna Mtimet, Carmen Orte Cano
- 18:00-19:00 **Piano Concert by Clement Lenoir**
- 20:00-22:00 **Networking Cocktail with faculty and participants**

Friday, 24 November 2023

- 09:00-09:20 High-frequency ultrasound in skin cancer
Philippe Bahadoran
- 09:20-09:40 High-frequency ultrasound in inflammatory, infectious, rare, and paediatric conditions
Linda Tognetti
- 09:40-10:00 High and ultra-high frequency ultrasound for hidradenitis suppurativa
Mariano Suppa
- 10:00-11:00 Hand-on-machines: a practical experience with patients
All faculty
- 11:10-11:30 **Coffee break**
- 11:30-13.20 All together: cases from the audience
All faculty and participants
- 13.20-13:30 Closing remarks and farewell
Mariano Suppa, Elisa Cinotti

The programme might be subject to change