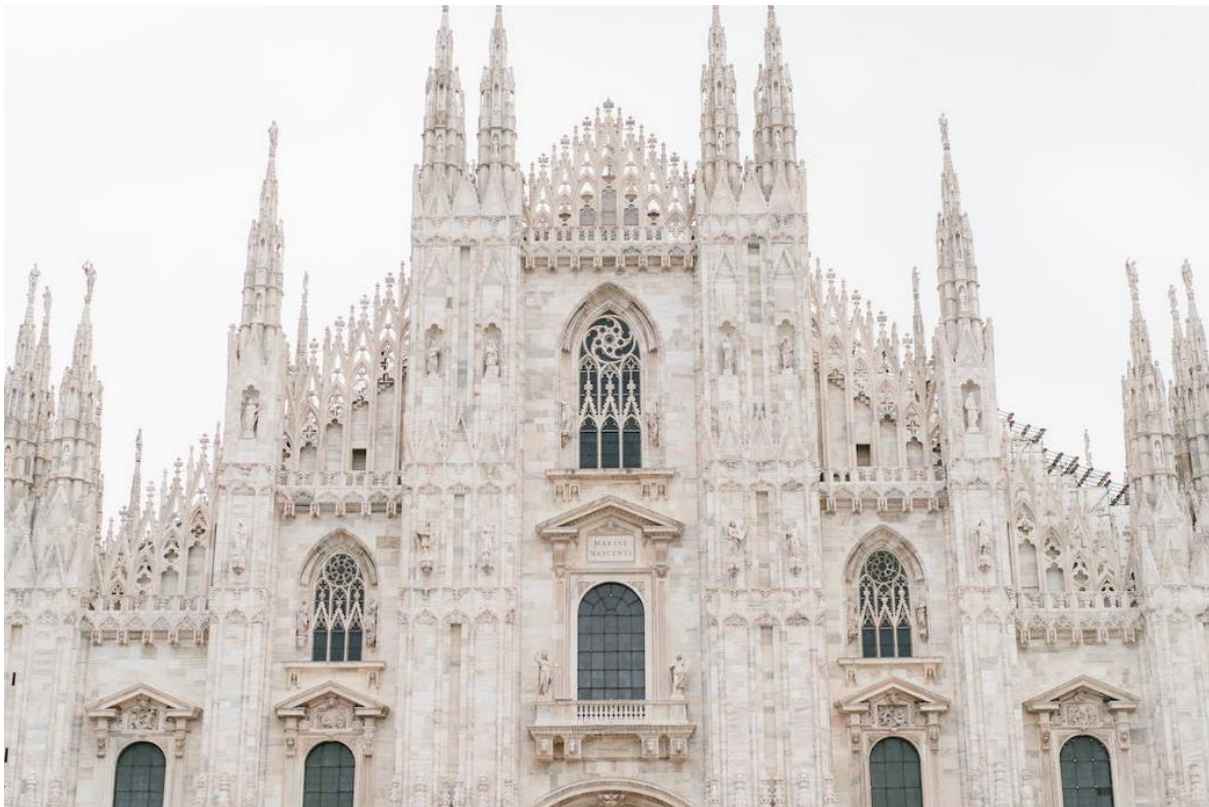


12th EULAR Course on Capillaroscopy and Microcirculation in Rheumatic Diseases

Milan, Italy

Monday, 29 May 2023 – Wednesday, 31 May 2023



ORGANISATION & COMMITTEE

Scientific Organisers

Maurizio Cutolo, MD (Italy)

Director Laboratories of Experimental Rheumatology and Academic Division of Clinical Rheumatology Department of Internal Medicine and Specialties - University of Genova, IRCCS San Martino Polyclinic Genova, Italy.

Vanessa Smith, MD, PhD (Belgium)

Department of Rheumatology, Ghent University Hospital, Ghent, Belgium; Department of Internal Medicine, Ghent University, Ghent, Belgium; Unit for Molecular Immunology and Inflammation, VIB Inflammation Research Center (IRC), Ghent, Belgium.

Faculty

- Cutolo Maurizio (Italy)
- Cere Andrea (Italy)
- Del Galdo Francesco (United Kingdom)
- Denton Christopher (United Kingdom)
- Distler Joerg (Germany)
- Distler Oliver (Switzerland)
- Dorfmueller Peter (France)
- Foeldvari Ivan (Germany)
- Herrick Ariane (United Kingdom)
- Hysa Elvis (Italy)
- Iagnocco Annamaria (Italy)
- Ingegnoli Francesca (Italy)
- Mihai Carina (Switzerland)
- Müller-Ladner Ulf (Germany)
- Pizzorni Carmen (Italy)
- Riccieri Valeria (Italy)
- Riemekasten Gabriela (Germany)
- Smith Vanessa (Belgium)
- Sulli Alberto (Italy)
- Vonk Madelon (The Netherlands)

Organising Secretariat

EULAR Office

Seestrasse 240

CH-8802 Kilchberg (Zurich)

Switzerland

T: +41 44 716 30 43 / F: +41 44 716 30 39

W: www.eular.org / esor.eular.org

E: education@eular.org

EULAR Committee

EULAR Education Committee, Live Courses & Meetings Sub-Committee

COURSE DESCRIPTION

The early diagnosis of Connective Tissue Diseases has been one of the most important achievements in Rheumatology and imaging advanced technology has helped and more and more to reach this result.

The aim of the 11th intensive and interactive EULAR Course on Capillaroscopy (CAP) and Microcirculation in RMDs is to provide all participants with an update on the power of the safe and non-invasive nailfold video capillaroscopy (NVC) technique in the field of rheumatic diseases, in particular for the early diagnosis of the scleroderma spectrum disorders, its predictability and prognostic value, as well as its role as a tool for the therapeutic follow up.

ACR/EULAR stated in the 2013 guidelines for classification criteria of systemic sclerosis (SSc): "Capillaroscopy is now widely used and considering the value of magnified nailfold visualization in the diagnosis and management of SSc, these new criteria may encourage acquisition of this skill by physicians caring for SSc patients". However, microvascular emerging NVC patterns observed in other connective tissue diseases will be described and discussed, such as in psoriasis, psoriatic arthritis, antiphospholipid syndrome, MCTD/UCTD, systemic lupus erythematosus and dermatomyositis.

Therefore, the course is structured for a progressive learning, training, and testing the achievements by the participants. The EULAR course on NVC, with almost 20 years of experience (first on 2003/2004), has been successfully tested for both beginners and already trained operators in microcirculation investigations, by over 1010 total participants from almost 65 different countries.

Interestingly, in the last 5 years, more than 550 publications on nailfold CAP have become available on PubMed where a total of 1785 papers are reported since 1946.

Participants to the EULAR CAP Course will be fully involved in interactive theoretical and practical sessions (Learning and Testing sessions, including televoting at the beginning and at the end), engaging a large number of rheumatic patients with different pathologies.

Updated clinical sessions concerning the diagnostic/prognostic value of NVC in diseases such as systemic sclerosis and the effects of targeted therapies on microcirculation and immune-inflammatory reaction will represent a stimulating gym based on large clinical cases discussion. Links between the CAP patterns and biomarkers such as autoantibodies (including functional) will also be updated.

In particular, reading and scoring (manual and the brand-new automated systems) of the video capillaroscopic images of living patients, will be discussed, including the predictive value to identify possible clinical complications (i.e. digital ulcers or pulmonary arterial hypertension, etc.).

The new guidelines and results regarding the aspects of CAP in pediatric population will be reported.

Further sessions will include recent international studies (CAP study) about new predictive models or index based on capillaroscopic analysis.

Regarding the Microcirculation in RMDs, new sessions on practical evaluation of the peripheral blood flow by laser doppler and LASCA imaging have been introduced. In addition, practical sessions on skin ultrasound (US) evaluation in scleroderma will be also available and will be combined with the severity of the video capillaroscopic images (patterns) in the same living patients.

Several monitors will show live on TV screens the practical sessions with patients. Interactive sessions with evaluation of the learning status are organized at the end of each session. Important links between CAP, Laser blood flow analysis and clinical results of therapies, will be presented and discussed.

At the end of this top Course, which is supported by a tutorial team formed by some of the best world experts on the matter, the participants will be able to use the capillaroscopy for their day-to-day diagnosis, staging and follow-up, in particular of patients affected by scleroderma spectrum disorders.

A collection of selected slides related to all the lectures will be released to all participants after the course in the participants account of the [EULAR School of Rheumatology](#) website, after filling in the course overall evaluation form.

Learning objectives

- Updating on the power of the safe and non-invasive nailfold video capillaroscopy (NVC) technique and other tools to evaluate microcirculation in the field of rheumatic diseases
- In particular for the (early) diagnosis of the scleroderma spectrum disorders and several other connective tissue diseases in presence of the Raynaud's phenomenon
- As well as the predictability and prognostic value of NVC for the therapeutic follow up in systemic sclerosis

GENERAL INFORMATION

Course venue

Hotel Meliá
Via Masaccio, 19
20149 Milan, Italy

[Website](#)

Course dates

Monday, 29 May 2023 (Start at 12:50) – Wednesday, 31 May 2023 (End at 12:00)

Official language

English

Maximum participants

120

Certification

After the course, all participants who have successfully completed the course will receive a certificate of attendance on their EULAR School user account. 100% course attendance is required.

Course fee

1000 € (VAT included), package includes:

(Seat with table, WIFI and extra screens in the auditorium. Selected slides of the sessions available after the course)

Monday, 29 May 2023

- Full access to the Course
- Coffee breaks

Tuesday, 30 May 2023

- Full access to the Course
- Coffee breaks
- Lunch

Wednesday, 31 May 2023

- Full access to the Course
- Coffee break

Note: hotel/accommodation is not included in the course fee.

REGISTRATION

Application requirements / Target audience

- Application requirements: No prerequisites
- Target audience: Medical professions: MD - Rheumatology, Allergology and Clinical Immunology, Dermatology and Venereology, Cardiology and Angiology, Internal Medicine, Geriatrics, Pediatrics

Registration process

Online: <https://esor.eular.org/course/view.php?id=380>

Please login to your EULAR School of Rheumatology account to register. If you do not have a School account, you will need to create one before applying.

Registration deadline: 30 April 2023

Early registration is advisable. Number of participants is limited. A waiting list will be made available.

Bursary

EULAR grants **bursaries** in the amount of **EUR 1000 each**. The amount of the bursary will be deducted from the course fee. Please apply with your motivation letter, CV and (if any) publication list within the registration system.

Bursary application deadline: 31 March 2023

Notification: mid-April 2023

Detailed Programme

Day 1 - Monday, 29 May 2023

Time	Type of session & Title	Speakers
12:00 – 12:50	REGISTRATION	
	<u>Chairs: M. Cutolo, A. Herrick, V. Smith</u>	
12:50 – 13:00	Introduction: EULAR CAP Course: 20 years of progresses	M. Cutolo
13:00 – 13:35	LECTURE – 35min (30min lecture + 5min discussion) Common pulmonary micro- and macrovascular lesions in early vs late patients with rheumatic autoimmune connective tissue diseases	P. Dorfmueller
13:35 – 14:10	LECTURE – 35min (30min lecture + 5min discussion) How to combine treatments to contract the clinical progression in presence of autoantibodies, microvascular damage, and lung involvement in systemic sclerosis	C. Denton
14:10 – 14:45	LECTURE – 35min (30min lecture + 5min discussion) The trajectory of skin fibrosis in diffuse cutaneous systemic sclerosis: a matter for advanced therapies?	J. Distler
14:45 – 15:05	COFFEE BREAK – 20min	
15:05 – 15:35	LEARNING AND TESTING – 30min (25min + 5min Televoting) (Televoter before and after) Cold hands: role of capillaroscopy in presence of Raynaud and the EULAR consensus on standardised description of capillaroscopy	V. Smith
15:35 – 16:00	LEARNING AND TESTING – 25min (20min + 5min Televoting) (Televoter before and after) How to best combine the different tools when evaluating the morphology and function of microcirculation in rheumatic autoimmune connective diseases	A. Herrick
16:00 – 16:25	LEARNING AND TESTING – 25min (20min + 5min individual test) State of the art on methods and tools for detection and quantization of the abnormal capillaroscopic morphological changes, including the artificial intelligence	O. Distler
16:25 – 16:40	COFFEE BREAK – 15min	
16:40 – 17:00	LEARNING AND TESTING – 20min (15min + 5min Televoting) (Televoter before and after) The fast track algorithm: fast and reliable distinction of scleroderma patterns and testing	V. Smith
17:00 – 18:30	PRACTICAL – 90min Practical session analysing the microvasculature by nailfold video capillaroscopy: TV-assisted presentation of several clinical cases with living patients from the podium	A. Herrick M. Cutolo V. Smith

Day 2 - Tuesday, 30 May 2023

Time	Type of session & Title	Speakers
<i>Chairs: F. Ingegnoli, G. Riemekasten, A. Sulli</i>		
08:30 – 09:10	LEARNING AND TESTING – 40min (35min + 5min Televoting) (Televoter before and after) Autoantibodies as biomarker and/or promoters in autoimmune connective tissue diseases: the interactions with endothelial cells and microvessels	G. Riemekasten
09:10 – 09:40	LECTURE – 30min (25min lecture + 5min discussion) Prediction of digital ulcers in systemic sclerosis by nailfold video capillaroscopy and associated microvascular abnormalities of perilesional skin	A. Herrick
09:40 – 10:10	LEARNING AND TESTING – 30min (25min + 5min Televoting) (Televoter before and after) The capillaroscopic image peculiarities in psoriasis versus psoriatic arthritis and rheumatoid arthritis – Clinical cases	V. Ricciari
10:10 – 10:30	COFFEE BREAK – 20min	
<i>Chairs: V. Smith, TBA</i>		
10:30 – 11:00	LEARNING AND TESTING – 30min (25 min + 5 min Televoting) (Televoter before and after) The most common nailfold capillaroscopic patterns observed in the scleroderma spectrum disorders, including overlap syndromes and myositis – Clinical cases	C. Mihai
11:00 – 11:30	LEARNING AND TESTING – 30min (25min + 5min Televoting) (Televoter before and after) The most common nailfold capillaroscopic patterns observed in non-scleroderma spectrum disorders, including systemic lupus erythematosus and antiphospholipid syndrome – Clinical cases	F. Ingegnoli
11:30 – 12:10	LEARNING AND TESTING – 40min (35min + 5min Televoting) (Televoter before and after) The crucial role of the microvascular analysis and capillaroscopy in improving the EULAR and ACR guidelines for the classification of systemic sclerosis	U. Müller-Ladner
12:10 – 12:30	LECTURE – 20min (15min + 5min discussion) Nailfold capillaroscopy usefulness in prediction and severity detection of interstitial lung disease progression in systemic sclerosis	M. Cutolo
12:30 – 13:30	LUNCH – 60min	

<p>13:30 – 14:00</p>	<p>LECTURE – 30min (25min lecture + 5min discussion) The role of the microvascular analysis and capillaroscopy in the new EULAR recommendations for the treatment of systemic sclerosis and its crucial role in very early disease</p>	<p>F. Del Galdo</p>
<p>14:00 – 14:40</p>	<p>PRACTICAL – 40min Practical session combining nailfold video capillaroscopy versus laser speckle contrast analysis (LASCA) and versus skin US analysis in the same patients in TV-assisted living cases of systemic sclerosis and different rheumatic autoimmune connective tissue diseases</p>	<p>A. M. Iagnocco A. Cere E. Hysa M. Cutolo V. Smith</p>
<p>14:40 – 15:00</p>	<p>COFFEE BREAK – 20min</p>	
<p>15:00 – 16:30</p>	<p>PRACTICAL – 90min The diagnostic role of nailfold video capillaroscopy in clinical case resolution and treatment follow-up</p>	<p>F. Ingegnoli M. Vonk V. Riccieri</p>
<p>16:30 – 18:00</p>	<p>PRACTICAL – 90min Practical session with participants with nailfold video capillaroscopic analysis of clinical cases with living patients (tutor supported): Rotating small groups of participants and tutors meet the reality and analyse by their self the patients</p>	<p>Tutors: A. Cere A. Herrick A. Sulli C. Mihai C. Pizzorni E. Hysa F. Ingegnoli M. Cutolo M. Vonk V. Smith V. Riccieri</p>

Day 3 - Wednesday, 31 May 2023

Time	Type of session & Title	Speakers
	<i>Chairs: F. Ingegnoli, V. Smith, A. Herrick</i>	
08:30 – 09:00	LECTURE – 30min (25min lecture + 5min discussion) The contribution of nailfold capillaroscopy and other microcirculation tools in evaluating the effects of targeted therapies in systemic sclerosis and other CTDs	M. Cutolo
09:00 – 09:30	LEARNING AND TESTING – 30min (25min lecture + 5min Televoting) (Televoter before and after) Raynaud's in children: the role of nailfold capillaroscopy for the early diagnosis and comparison with the role in adults	I. Foeldvari
09:30 – 10:00	LECTURE AND TESTING – 30min (25min + 5min Televoting) (Televoter before and after) Advanced on standardised nailfold capillaroscopy in children with rheumatic diseases	F. Ingegnoli
10:00 – 10:20	COFFEE BREAK – 20min	
10:20 – 10:50	LECTURE – 30min (25min lecture + 5min discussion) The use of vasodilation in systemic sclerosis: evaluating the effects on microcirculation	M. Vonk
10:50 – 11:15	LECTURE – 25min (20min lecture + 5min discussion) The most efficient way to report and to store the capillaroscopic images: 20 years of experience	A. Sulli
11:15 – 11:40	PRACTICAL – 25min (20min lecture + 5min discussion) How to avoid the most common mistakes and pitfalls in reading the nailfold capillaroscopic images	C. Pizzorni V. Ricciari
11:40 – 12:00	Conclusions and the continuous update by the EULAR Study Group on Microcirculation in Rheumatic Diseases	V. Smith

Any changes to the scientific programme or to the list of speakers are possible until the date of course. Further updates will be published on the [EULAR School of Rheumatology](https://www.eular.org) homepage.