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LEVEL III

ASKLEPIOS

Course

MECHANICAL THROMBECTOMY

June 26-28, 2019
Lille/France



Université
de Lille



FACULTÉ
DE MÉDECINE
Henri Warembourg

ESOR EUROPEAN SCHOOL
OF RADIOLOGY

ESRF EUROPEAN SOCIETY
OF RADIOLOGY

EDUCATION IN PARTNERSHIP

LEVEL III

ASKLEPIOS Course

MECHANICAL THROMBECTOMY

June 26–28, 2019
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Course information

The course is aimed at board-certified radiologists and fellows interested in understanding the challenges of thrombectomy. Mechanical thrombectomy using stent retriever is the new standard treatment for patients suffering from anterior circulation acute ischemic strokes with large vessel occlusions. Due to the dramatic increase in the number of acute ischemic stroke patients receiving MT for the last 3 years, the need to train physicians in mechanical thrombectomy has also become more prominent. Renowned European experts will ensure a high-quality teaching programme, combining lectures, hands-on workshops and interactive clinical case discussions.

Learning objectives

- to understand the ongoing increase of thrombectomy and its organisational challenges
- to be familiar with the medical part of acute ischemic stroke (from biology to advanced radiological techniques)
- to be able to understand the intervention (from the very beginning to a more technical matter), to select patient for mechanical thrombectomy, and to know pitfalls and tips and tricks



Programme

MECHANICAL THROMBECTOMY

June 26-28, 2019
Lille/France

Wednesday, June 26, 2019

- 13:00-14:00 Registration
- 14:00-14:20 Welcome and introduction
- 14:20-14:40 **Epidemiology of stroke and societal impact**
D. Leys, Lille/FR
- 14:40-15:00 **The first stroke treatment: the stroke Unit. Is thrombolysis dead?**
E. Touzé, Caen/FR
- 15:00-15:20 **Comprehensive stroke center network, where to perform thrombectomy?**
C. Taschner, Freiburg/DE
- 15:20-15:40 **Pre-hospital management: mothership, drip & ship**
P. Goldstein, Lille/FR
- 15:40-16:10 Coffee break
- 16:10-16:30 **MRI first, the way to go!**
X. Leclerc, Lille/FR
- 16:30-16:50 **Stroke mimics & chameleons**
D. Leys, Lille/FR
- 16:50-17:10 **CT and MRI perfusion, do we need it? - Diffusion, FLAIR, T2*, TOF, is that all? (advanced imaging)**
G. Boulouis, Paris/FR
- 17:10-17:30 **European strategy of stroke imaging**
M. Argyropoulou, Ioannina/GR

Host organiser



J.-P. Pruvo
Lille/FR

Venue

Lille School of Medicine - Pôle Recherche
Place de Verdun
59045 Lille
France

Registration fees

ESR members in training
Early fee EUR 220; Late fee EUR 270

ESR members
Early fee EUR 420; Late fee EUR 470

(Early fee until eight weeks prior to the course)
(Late fee after eight weeks prior to the course)

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June 26–28, 2019
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Thursday, June 27, 2019

- 09:00–09:20 **Thrombectomy: what the RCTs tell us?**
O. Berkhemer, Amsterdam/NL
- 09:20–09:40 **Haemorrhagic transformation, who's to blame?**
C. Cordonnier, Lille/FR
- 09:40–10:00 **Graduation for thrombectomy: who to graduate to assume workflow?**
Example in the south-west of France
J. Berge, Bordeaux/FR
- 10:00–10:20 **Discussion**
- 10:20–10:50 Coffee break
- 10:50–12:40 Session: From grade A to off-label thrombectomy**
- 10:50–11:10 **Too old?**
H. Henon, Lille/FR
- 11:10–11:30 **Too large? In Extremis**
C. Dargazanli, Montpellier/FR
- 11:30–11:50 **Not severe enough – Low NIHSS?**
B. Lapergue, Paris/FR
- 11:50–12:10 **Tandem occlusion?**
B. Gory, Nancy/FR
- 12:10–12:30 **ARTS, SAVE, EPIC, BGC, SOS!**
P. Vilela, Lisbon/PT
- 12:30–13:40 Lunch break
- 13:40–14:00 **Anti-platelets and anti-coagulants**
I. Sibon, Bordeaux/FR
- 14:00–14:20 **Stroke unit and tele-stroke network, the German model?**
H. Audebert, Berlin/DE
- 14:30–18:00 Group 1: Practical workshop**
Hands-on workshop. Virtual and flow-model simulation
L. Estrade, Lille/FR; T. Personnic, Lille/FR; N. Bricout, Lille/FR
- 14:30–18:00 Group 2: Theoretical workshop**
- 14:30–16:00 **Group 2a: CT & MRI pitfalls (virtual cases)**
G. Kuchinski, Lille/FR; J. Le Faivre, Lille/FR; X. Leclerc, Lille/FR
- Group 2b: Interactive clinical cases**
A. Kazémi, Lille/FR; C. Barbier, Caen/FR; N. Nouri, Lille/FR
- 16:00–16:30 Coffee break

Programme

MECHANICAL THROMBECTOMY

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Lille/France

16:30-18:00 **Group 2a: Interactive clinical cases**
A. Kazémi, Lille/FR; C. Barbier, Caen/FR; N. Nouri, Lille/FR
Group 2b: CT & MRI pitfalls (virtual cases)
G. Kuchinski, Lille/FR; J. Le Faivre, Lille/FR; X. Leclerc, Lille/FR

Friday, June 28, 2019

09:00-12:30 **Group 2: Practical workshop**
Hands-on workshop. Virtual and flow-model simulation
L. Estrade, Lille/FR; T. Personnic, Lille/FR; N. Bricout, Lille/FR

09:00-12:30 **Group 1: Theoretical workshop**

09:00-10:30 **Group 1a: CT & MRI pitfalls (virtual cases)**
G. Kuchinski, Lille/FR; J. Le Faivre, Lille/FR; X. Leclerc, Lille/FR
Group 1b: Interactive clinical cases
A. Kazémi, Lille/FR; C. Barbier, Caen/FR; N. Nouri, Lille/FR

10:30-11:00 Coffee break

11:00-12:30 **Group 1a: Interactive clinical cases**
A. Kazémi, Lille/FR; C. Barbier, Caen/FR; N. Nouri, Lille/FR
Group 1b: CT & MRI pitfalls (virtual cases)
G. Kuchinski, Lille/FR; J. Le Faivre, Lille/FR; X. Leclerc, Lille/FR

12:50-13:10 **Stroke physiopathology, what do we know?**
R. Bordet, Lille/FR

13:10-13:30 **Giving new life to old music: about the future of translational stroke research**
D. Vivien, Caen/FR

13:30-14:00 **Conclusion: Round table**
What next for thrombectomy?
Multi-centric and collaborative databases: a call for unity
H. Desal, Nantes/FR; J.-P. Pruvo, Lille/FR; D. Leys, Lille/FR

14:00 Certificate of attendance

LEVEL III

Learning Objectives

MECHANICAL THROMBECTOMY

June 26–28, 2019
Lille/France

Epidemiology of stroke and societal impact

D. Leys, Lille/FR

- to know the incidence and prevalence of stroke in Europe
- to know the time-trends of the incidence and prevalence of stroke in the 21st century
- to know the global burden of stroke in the health system and trends over time

The first stroke treatment: the stroke Unit. Is thrombolysis dead?

E. Touzé, Caen/FR

- to learn about the indications and the benefits of intravenous thrombolysis in acute stroke patients
- to understand why thrombolysis will remain the first line treatment in the majority of acute ischemic stroke patients
- to appreciate the rare situations where intravenous thrombolysis can be contraindicated

Comprehensive stroke center network, where to perform thrombectomy?

C. Taschner, Freiburg/DE

- to define the minimum requirements for 24/7 INR stroke service
- to understand the role of telemedicine in INR stroke service
- to analyse the regional concepts for INR stroke service

Pre-hospital management: mothership, drip & ship

P. Goldstein, Lille/FR

- to determine suspicion of stroke and activate correct EMS
- to determine patients eligible for direct access to thrombectomy during the pre-hospital phase
- to prepare the correct admission for direct thrombectomy from the pre-hospital setting
- to consider the best stroke network: mothership, drip and ship

MRI first, the way to go!

X. Leclerc, Lille/FR

- to know the current recommendations of MRI protocol in acute stroke
- to understand the basic concept and image interpretation of MR sequences
- to know the advanced MR techniques to reduce the scan time
- to identify the stroke mimics

Stroke mimics & chameleons

D. Leys, Lille/FR

- to know the main causes of stroke mimics
- to know the consequences for patients of treating a stroke mimic with rtPA
- to know the clinical presentation of the main stroke chameleons

Learning Objectives

MECHANICAL THROMBECTOMY

June 26–28, 2019
Lille/France

CT and MRI perfusion, do we need it? - Diffusion, FLAIR, T2*, TOF, is that all? (advanced imaging)

G. Boulouis, Paris/FR

- to discuss the added value of CT and MR perfusion in patients' selection for revascularisation techniques
- to learn when advanced imaging is critical, and when it is superfluous or simply delaying care
- to learn the tools and tricks for fast decision-making using advanced imaging or surrogate markers at the acute phase of stroke
- to identify and anticipate clinical situations where advanced imaging will ease selection process

European strategy of stroke imaging

M. Argyropoulou, Ioannina/GR

- to learn about the current situation of imaging practices on stroke in European countries
- to appreciate the role of big established stroke centres in training interventional radiologists and founding new thrombectomy capable centres
- to understand the importance of Telestroke and the impact of developing new stroke centres throughout Europe

Thrombectomy: what the RCTs tell us?

O. Berkhemer, Amsterdam/NL

- to become familiar with the difference between outcome and treatment effect
- to learn about patient selection for mechanical thrombectomy within the 6-hour time-window and beyond
- to learn about patient selection for mechanical thrombectomy within the 6-hour time-window and beyond
- to understand that all primary stroke centres should be able to carry out and interpret CT and CTA 24/7

Haemorrhagic transformation, who's to blame?

C. Cordonnier, Lille/FR

- to learn how frequent it is
- to identify the predictive factors
- to understand how to prevent it

Graduation for thrombectomy: who to graduate to assume workflow? Example in the south-west of France

J. Berge, Bordeaux/FR

- to learn about laws in France that organise graduation for INR for residents and fellows
- to understand the challenge of territorial organisation to guarantee an equal access for all stroke patients
- to appreciate different European situations, country by country
- to become familiar with different ways to graduate radiologists and neurologists, young and already experienced practitioners

LEVEL III

Learning Objectives

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Lille/France

From grade A to off-label thrombectomy: Too old?

H. Henon, Lille/FR

- to learn about what is known concerning thrombectomy in old patients in the absence of dedicated RCTs
- to understand why mechanical thrombectomy should not be denied in old people

From grade A to off-label thrombectomy: Too large? In Extremis

C. Dargazanli, Montpellier/FR

- to learn what is a large stroke
- to learn what is known about large strokes
- to understand why randomised controlled studies are needed: In EXTREMIS

From grade A to off-label thrombectomy: Not severe enough – Low NIHSS?

B. Lapergue, Paris/FR

- to learn about the prevalence and reported data about low NIHSS and AIS with LVO
- to understand the benefit and the safety of urgent endovascular approach for low NIHSS patients and LVO
- to be updated on the future trials on this issue (In EXTREMIS-MOSTE)

From grade A to off-label thrombectomy: Tandem occlusion?

B. Gory, Nancy/FR

- to define the tandem occlusion of the anterior circulation, its causes and the prognosis
- to learn the management of tandem occlusions and impact of emergent carotid stenting
- to discuss the future randomised controlled TITAN trial: rational, objectives and actual status

From grade A to off-label thrombectomy: ARTS, SAVE, EPIC, BGC, SOS!

P. Vilela, Lisbon/PT

- to discuss the future randomised controlled TITAN trial: rational, objectives and actual status
- to discuss the use of balloon-guided catheter, distal catheter access and aspiration
- to demonstrate some of the new advances in mechanical thrombectomy with the combination of techniques

Anti-platelets and anti-coagulants

I. Sibon, Bordeaux/FR

- to evaluate the risks and benefits of acute revascularisation in stroke patients treated by antiplatelet drug
- to evaluate the risks and benefits of acute revascularisation in stroke patients treated by anticoagulant
- to analyse perspectives of adding antiplatelet or anticoagulants during endovascular therapies for acute stroke

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Stroke unit and tele-stroke network, the German model?

H. Audebert, Berlin/DE

- to learn about the effects of modern stroke treatments on single patients and on the entire stroke population
- to understand the role of quality management, infrastructure and telemedicine in comprehensive Telestroke networks
- to become familiar with the potentials of Telestroke networking within the new challenges of state-of-the-art stroke treatments

Stroke pathophysiology, what do we know?

R. Bordet, Lille/FR

- to learn about the pathophysiological course of stroke
- to understand the role of the different pathways in short- or long-term stroke evolution
- to appreciate the impact of pathophysiological pathways as potential pharmacological targets

Giving new life to old music: about the future of translational stroke research

D. Vivien, Caen/FR

- to learn about the current treatments of ischemic stroke and their limitations
- to identify why the translation from basic research to clinic failed in the field of stroke
- to analyse how the relevance of translational research may be improved
- to discuss the future strategies which should be tested in clinic

EDUCATION IN PARTNERSHIP

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Please note that programmes are marked with a logo to indicate their classification according to the European Training Curriculum.

LEVEL I

First three years of training

LEVEL II

Fourth and fifth year of training
(general radiologist standard)

LEVEL III

Subspecialty training standard