

# ARKANA FORUM

MEDICAL EDUCATION CENTER

16th - 17th May 2023



INVITATION

2023 | cIONM and (auto)fluorescence  
imaging in thyroid surgery

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Dear colleagues and friends,

we are pleased to announce the upcoming course „continuous intraoperative Neuromonitoring in Thyroid Surgery“ in Mainz.

New aspects of continuous intraoperative neuromonitoring (cIONM) and proven tips for its practical handling will be shared.

Even though both, intermittent and continuous IONM, have been used for many years in thyroid surgery now, uncertainties in the Gold Standard implementation of both methods still exist - especially pitfalls in the interpretation of EMG signals.

This course offers a better understanding of the current state-of-the-art handling and the thereof optimal intraoperative assessment of the nerve function of the vagus nerve and the recurrent laryngeal nerve.

Moreover, the method of (auto)fluorescence imaging of the parathyroid glands in order to preserve parathyroid function will be presented.

As a highlight, you will have the chance to observe live surgeries. We will demonstrate the application of cIONM for thyroidectomies - if possible, with central or (uni)lateral lymphadenectomy - as well as intraoperative fluorescence imaging of parathyroid glands.

We invite you to join this interesting course, to ask questions, participate in discussions, and enjoy networking with peers. My team and I are looking forward to welcoming you.

**Prof. Dr. Thomas J. Musholt, M.D., FEBS-ES**

Professorship and Section Head „Endocrine Surgery“

Deputy Director of the Department of General, Visceral and Transplantation Surgery

University Medicine of the Johannes-Gutenberg-University Mainz

**TUESDAY, MAY 16TH, 2023**

- 2:00 pm     **Registration**
- 2.30 pm     **Welcome**
- 2:45 pm     **Requirements and standards for the application of cIONM:**  
Signal quality, electrode positioning, standard monitoring procedure
- 3:15 pm     **How to distinguish artefacts from actual signal changes in cIONM:**  
Causes of signal changes (loss of nerve function, injury patterns) and signal artefacts
- 3:45 pm     **Coffee break**
- 4:00 pm     **(Auto)fluorescence imaging of parathyroid glands**
- 4:45 pm     **Optimal positioning of tube electrodes:**  
Presentation of the results of the LION trial
- 5:00 pm     **Documentation of IONM data:**  
Comment labelling, Excel lists, plots, and merging with clinical data
- 5:20 -  
5:40 pm     **Introduction of patients and cases for live-surgery:**  
Medical history and planned surgeries for the next day
- 7:00 pm     **Social event**

## WEDNESDAY, MAY 17TH, 2023

- 8:00 am **Arrival at the designated meeting room**
- 8:15 am **Changing rooms and tour of the OR**
- 8:30 am **Tips and tricks for intubation when using cIONM:**  
Tube size and adhesive electrodes
- 9:00 am **Coffee break and discussion**  
Special considerations for pediatric surgeries, tracheal resections, etc.; IONM in non-thyroid surgeries
- 9:15 am **Live surgeries**
- cIONM of the N. vagus, N. laryngeus superior, and N. laryngeus recurrens
  - Intraoperative (auto)fluorescence imaging of the parathyroid glands and their vascularization
- approx. 11:45 am **Case presentation / video demonstration**  
(following the surgeries)
- 1:45 pm **Closing remarks**

Please note that the program is subject to change!

## MEDICAL DIRECTOR

**Prof. Dr. Thomas J. Musholt, M.D., FEBS-ES**

Professorship and Section Head „Endocrine Surgery“

Deputy Director of the Department of General, Visceral and Transplantation Surgery (AVTC)

University Medicine of the Johannes-Gutenberg-University Mainz

## INVITED SPEAKERS

**Dr. Julia I. Staubitz**

AVTC

University Medicine, Mainz

**Prof. Dr. Martina Koch**

AVTC

University Medicine, Mainz

**Priv.-Doz. Dr. med. Marc Kriege, EDAIC**

Dept. of Anaesthesiology

University Medicine, Mainz

**Prof. Gianluca Donatini, MD, PhD, FEBS-ES**

Head Endocrine Surgery Department – CHU Poitiers, France

## TOPIC

- continuous intraoperative neuromonitoring (cIONM) in thyroid surgery
- (auto)fluorescence imaging of parathyroid glands

## IN THIS COURSE YOU WILL LEARN

- cIONM basics with regard to technology, application and recent innovations
- mechanisms / causes of function-related signal changes; differentiation between true loss-of-signal and artefacts
- anaesthesiological aspects of cIONM
- tips and tricks for particular patients or operative situations (children, tracheal resections)
- cIONM system set-up in the OR; tips and tricks for the preparation of thyroid surgeries, such as tube selection and patient positioning
- optimal placing of breathing tube and electrodes; optimal nerve stimulation
- intermittent and continuous stimulation of Vagus, RLN and SLN
- live-surgery demonstration of cIONM in thyroidectomies; if feasible, with central and (uni)lateral lymphadenectomy
- consequences of intraoperative signal changes or signal loss (change in surgical strategy)
- correct labelling of documented signals, (judicially sufficient) documentation of IONM findings
- IONM data quality check

As an extra:

- (auto)fluorescence imaging of parathyroid glands

## TARGET GROUP

- Surgeons who already use cIONM and who want to deepen their knowledge
- Surgeons who use intermittent IONM and who want to newly establish cIONM in their clinic

### Online-Registration

Please register yourself via this link:

[2023 I cIONM and \(auto\)fluorescence imaging in thyroid surgery](#)

### Price

540 € (excl. VAT)

642.60 € (incl. 19% VAT - Germany)

VAT depends on the place where the service is provided.

### Terms of payment / Registration

The course fee must be paid in advance, at the latest 2 weeks before the start of the course - please note that course participation is only confirmed once payment has been received. If your registration is cancelled, we will refund the course fee, except for a 25 EUR administration fee. The information about the cancellation must be received at least 2 weeks before the start of the course. If the cancellation is made later or if the participant does not take part in the course, we are entitled to retain the full course fee.

### Certification

12 CME credits

Rhineland-Palatinate Medical Association

(has been applied for)

### Location

University Medicine of the Johannes-Gutenberg-University  
Mainz, Germany

Langenbeckstraße 1

55131 Mainz

[How to find the clinic](#)

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The protection of your data is very important to us. The data submitted with your registration will only be used for the organisation of this event, so that we can inform you and keep you up to date about the event details. Your data will not be passed on to third parties outside the inomed group. If you do not wish to receive further event information, please let us know.

## Accommodation

We have set up a call-off contingent at the Novotel Mainz, located near the University Medical Center. You will receive the information with the registration confirmation.

Novotel Mainz  
Augustusstrasse 6  
55131 Mainz

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