

#### Course Directors

- Prof. Fiorella Contarino,  
The Hague, The Netherlands
- Prof. Robert Jech,  
Prague, Czech Republic

#### Faculty March 17

- Prof. Andrea Kühn,  
Berlin, Germany (virtual)
- Dr. Michael Schüpbach,  
Bern, Switzerland
- Prof. Martijn Beudel  
Amsterdam, The Netherlands
- Gaetano Leogrande, MSc,  
Maastricht, The Netherlands

#### Accreditation

An application for accreditation has been submitted with RIZIV in Belgium:

March 17: ID25001920

March 27: ID25001923

March 28: ID25001925

#### Target audience

- Neurologists or residents involved in the patient pathway from planning to follow-up care wishing to deepen their knowledge and skills related to programming and wanting to understand the newest programming strategies and technologies
- Specialized DBS nurses, involved in DBS programming and patient care
- Multi-disciplinary teams of neurologist and nurses, especially to foster the multi-disciplinary approach to patient care

#### Venue March 27

Carlton Ambassador Hotel  
Sophialaan 2  
2514 JP The Hague  
The Netherlands

#### On-site assistance

Tamara Franssen

## Deep Brain Stimulation Fundamental Programming Academy

### Getting a sense of what is possible with programming for Movement Disorders

March 17 and 27 & 28, 2025

The Hague, The Netherlands

At the end of this course, participants will be able to understand how to optimize symptom relief with minimal side effects through basic programming with an emphasis on sensing programming options

## Agenda Virtual introduction Monday March 17, 2025

\* All times mentioned are in CET (UTC+1)

- |       |   |
|-------|---|
| 17:30 | <b>Welcome</b><br>Prof. Contarino & Prof. Jech  |
| 17:35 | <b>Introduction of Faculty</b><br>Prof. Contarino & Prof. Jech  |
| 17:40 | <b>Live Survey</b><br>Prof. Contarino   |
| 17:50 | <b>Patient selection Parkinson's Disease: Selection criteria, case-based presentation</b><br>Dr. Schüpbach                            |
| 18:10 | <b>Live Q&amp;A session</b>   |
| 18:15 | <b>Patient selection Dystonia: Selection criteria, case-based presentation</b><br>Prof. Kühn  |
| 18:35 | <b>Live Q&amp;A session</b>   |
| 18:40 | <b>Patient selection Tremor: Selection criteria, case-based presentation</b><br>Prof. Contarino                                       |
| 19:00 | <b>Live Q&amp;A session</b>   |
| 19:05 | <b>Live Quiz</b><br>Prof. Contarino & Prof. Jech  |
| 19:20 | <b>Introduction to E-learning and How to prepare for presentation in The Hague</b><br>Prof. Jech                                      |
| 19:25 | <b>Case example</b><br>Prof. Jech   |
| 19:30 | <b>Closing remarks &amp; End of virtual introduction</b><br>Training will be continued in face-to-face setting on March 27 & 28, 2025 |

#### Course Directors

- Prof. Fiorella Contarino,  
The Hague, The Netherlands
- Prof. Robert Jech,  
Prague, Czech Republic

#### Faculty March 27 & 28

- Dr. Michael Schüpbach,  
Bern, Switzerland
- Prof. Martijn Beudel  
Amsterdam, The Netherlands
- Gaetano Leogrande, MSc,  
Maastricht, The Netherlands

#### Accreditation

An application for accreditation has been submitted with RIZIV in Belgium:  
March 17: ID25001920  
March 27: ID25001923  
March 28: ID25001925

#### Target audience

- Neurologists involved in the patient pathway from planning to follow-up care wishing to deepen their knowledge and skills related to programming and wanting to understand the newest programming strategies and technologies
- Specialized DBS nurses, involved in DBS programming and patient care
- Multi-disciplinary teams of neurologist and nurses, especially to foster the multi-disciplinary approach to patient care

#### Venue March 27

Carlton Ambassador Hotel  
Sophialaan 2  
2514 JP The Hague  
The Netherlands

#### Venue March 28

Haga ziekenhuis Den Haag  
Els Borst-Eilersplein 275  
2545 AA The Hague  
The Netherlands

## Agenda in-person training

### Thursday March 27, 2025

- Registration & lunch buffet in meeting room*
- 13:00** **Welcome and course introduction: Goals and Expectations**  
Prof. Contarino & Prof. Jech
- 13:15** **Introduction of Participants**
- 13:45** **Around the world of DBS programming: the basics (25' presentation and 5' discussion)**  
G. Leogrande, MSc.  
- what is the effect of changing the different parameters (pulse width vs. frequency), concepts of constant-current and constant-voltage, what is VTA, impedance, etc.
- 14:15** **Understanding the basics of programming: Clinical aspects on Parkinson's Disease (25' presentation and 5' discussion)**  
Prof. Jech  
- Basic steps, initial programming, long-term programming. Lecture will include references to anatomy and will cover medication adjustment correlated with programming
- 14:45** **Afternoon break**
- 15:15** **Understanding the basics of programming: Clinical aspects on Dystonia (25' presentation and 5' discussion)**  
Dr. Schüpbach  
- Basic steps, initial programming, long-term programming. Lecture will include references to anatomy and will cover medication adjustment correlated with programming
- 15:45** **Understanding the basics of programming: Clinical aspects on Tremor (25' presentation and 5' discussion)**  
Prof. Contarino  
- Basic steps, initial programming, long-term programming. Lecture will include references to anatomy and will cover medication adjustment correlated with programming
- 16:15** **Group discussion**
- 16:30** **Local field potentials: The Basics & Clinical experiences with Sensing (25' presentation and 5' discussion)**  
Dr. Beudel  
- what is Beta, correlations, existing data  
- what can we do/see with sensing in real life
- 17:00** **Group discussion**
- 17:15** **Programming cases presented by Participants**  
*[please kindly submit your case before March 25 and send to info@ecmt-training.com](mailto:info@ecmt-training.com)*
- 18:00** **End of program day 1**
- 19:15** **Departure for group dinner**
- 19:30** **Group dinner**

#### Course Directors

- Prof. Fiorella Contarino,  
The Hague, The Netherlands
- Prof. Robert Jech,  
Prague, Czech Republic

#### Faculty March 27 & 28

- Dr. Michael Schüpbach,  
Bern, Switzerland
- Prof. Martijn Beudel  
Amsterdam, The Netherlands
- Gaetano Leogrande, MSc,  
Maastricht, The Netherlands

#### Accreditation

An application for accreditation has been submitted with RIZIV in Belgium:

March 17: ID25001920

March 27: ID25001923

March 28: ID25001925

#### Target audience

- Neurologists involved in the patient pathway from planning to follow-up care wishing to deepen their knowledge and skills related to programming and wanting to understand the newest programming strategies and technologies
- Specialized DBS nurses, involved in DBS programming and patient care
- Multi-disciplinary teams of neurologist and nurses, especially to foster the multi-disciplinary approach to patient care

#### Venue March 27

Carlou Ambassador Hotel  
Sophialaan 2  
2514 JP The Hague  
The Netherlands

#### Venue March 28

Haga ziekenhuis Den Haag  
Els Borst-Eilersplein 275  
2545 AA The Hague  
The Netherlands

## Friday March 28, 2025

- 08:30 Welcome and wrap-up of day 1**  
Prof. Contarino & Prof. Jech
- 08:45 Image guided programming**  
Prof. Jech
- 09:05 Sensing Workflow (15' presentation and 5' discussion)**  
Prof. Contarino
- 09:25 Around the world of DBS programming: new features (15' presentation and 5' discussion)**  
G. Leogrande, MSc.  
- Multiple frequencies, personalized shape of stimulation field, display vs. delivered amplitude, what is interleaved, real and apparent current, current spread with directional leads, when is better to use an option rather than another, adaptive DBS
- 09:45 Group discussion**
- 10:00 Morning Break**
- Break-out session: Practical programming & Troubleshooting workshop  
Participants will be split in 2 groups, 2 x 1h rotation*
- 10:30 Case-based (advanced feature) hands-on programming workshop:**  
- from basic to new features of programming  
- brainsense  
All Faculty
- 11:30 Rotation, change of groups in break-out rooms**
- Break-out session: Practical programming & Troubleshooting workshop  
Participants will be split in 2 groups, 2 x 1h rotation*
- 11:45 Case-based (advanced feature) hands-on programming workshop:**  
- from basic to new features of programming  
- brainsense  
All Faculty
- 12:45 Lunch Break**
- 13:40 Concepts behind adaptive DBS and a perspective into future applications (15' presentation and 5' discussion)**  
Dr. Beudel
- 14:00 Post-operative management and troubleshooting**  
Prof. Jech
- 14:20 Programming cases presented by Participants**  
*[please kindly submit your case before March 25 and send to info@ecmt-training.com](mailto:info@ecmt-training.com)*
- 15:00 Group discussion with refreshments**
- 15:15 Challenging case discussion and sensing related questions (cases from Faculty or additional participant cases i.a.)**
- 15:35 Final Quiz, Conclusion & Adjournal**  
Prof. Contarino & Prof. Jech
- 16:00 End of training**