

# Perioperative Management in CRS and HIPEC of Peritoneal Malignancy

5<sup>th</sup> Course: 01.-06. December 2017

**Module 1: Perioperative Management during Cytoreductive Surgery (CRS) and Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in the Treatment of Peritoneal Surface Malignancy (PSM) 01.-02.12.2017**

**Module 2: Live Demonstration of Patients Treatment (limited Number of Participants) 04.-06.12.2017**

**Chair:** Beate Rau, Charité Campus Virchow Klinikum, Berlin

**Co-Chair:** Roland Francis, Charité Virchow Klinikum, Berlin

## Speakers:

**Felix Aigner MD**, Department of Surgery, Charité Campus Virchow Klinikum, Berlin, DE

**Nicolai Andrees MD**, Department of Anesthesiology & Critical Care Medicine, Charité Campus Virchow Klinikum, Berlin, DE

**Matthias Biebl MD**, Department of Surgery, Charité Campus Virchow Klinikum, Berlin, DE

**Andreas Brandl MD**, Department of Surgery, Charité Campus Virchow Klinikum, Berlin, DE

**Sabine Enkelmann**, Scrub nurse, Department of General Surgery, Charité Campus Mitte, Berlin, DE

**Severin Daum MD**, Department of Gastroenterology, Charité Campus Benjamin Franklin, Berlin

**Astrid Fahlenkamp MD**, Department of Anesthesiology & Critical Care Medicine, Charité Campus Virchow Klinikum, Berlin, DE

**Margit Facklam**, Health and safety officer, Charité Campus Virchow Klinikum, Berlin, DE

**Roland Francis MD**, Department of Anesthesiology & Critical Care Medicine, Charité Campus Virchow Klinikum, Berlin, DE

**Gabriel Glockzin MD**, Department of Surgery, Klinikum Bogenhausen, Munic, DE

**Jens Hartmann MD**, Chair of the Department of Surgery, AKH, Celle, DE

**Magnus Kaffarnik MD**, Department of Surgery, Charité Campus Virchow Klinikum, Berlin, DE

**Axel Köhler**, Commercial Controlling Department of Surgery, Charité, Berlin, DE

**Martin Krebs MD**, Department of Anesthesiology & Critical Care Medicine, Charité Campus Virchow Klinikum, Berlin, DE

**Rainer Kuhly MD**, Department of Anesthesiology & Critical Care Medicine, Charité Campus Virchow Klinikum, Berlin, DE

**Susanne Marz MD**, Intensive Care Unit, Department of Surgery, Charité Campus Mitte, Berlin, DE

**Faheez Mohamed MD**, Peritoneal malignancy institute, Basingstoke Hospital, Basingstoke, GB

**Verena Müller MD**, Department of Surgery, Charité Campus Mitte, Berlin, DE

**Antonia Pallauf MD**, Charité Comprehensive Cancer Center, Psychooncology, Charité Campus Mitte, Berlin, DE

**Pelz Jörg MD**, Department of Surgery, University of Wuerzburg, Wuerzburg, DE

**Johann Pratschke MD**, Head of Department of Surgery, Charité Campus Mitte | Virchow Klinikum, Berlin, DE

**Christoph Raspé MD**, Head of Department Anesthesiology & Critical Care Medicine, University, Halle, DE

**Beate Rau MD**, Department of Surgery, Charité Campus Virchow Klinikum, Berlin, DE

**Micheal Sander MD**, Department of Anesthesiology & Critical Care Medicine, Justus-Liebig-University Gießen and Marburg, Gießen, DE

**Torsten Schröder MD**, Department of Anesthesiology & Critical Care Medicine, Charité Campus Mitte, Berlin, DE

**Martina Seif MD**, Pharmacist, Central Cytostatic Drug Administration, Charité Campus Virchow Klinikum, Berlin, DE

**Marianne Sinn**, Department for Medical Oncology, Charité Campus Virchow Klinikum, Berlin, DE

**Jesse Smith**, Scrub nurse, Department of General Surgery, Charité Campus Virchow Klinikum, Berlin, DE

**Sascha Tafelski MD**, Department of Anesthesiology & Critical Care Medicine, Charité Campus Virchow Klinikum, Berlin, DE

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## Workshop Goals

The combination of cytoreductive surgery (CRS) and hyperthermic intraperitoneal chemotherapy (HIPEC) as a treatment for peritoneal metastases is becoming ever more significant for both palliative and curative cancer treatment. In order to bring the greatest possible benefit to the patient, both careful preoperative selection and also standardized perioperative management are crucial. The Standard Operation Procedures (SOP) for performing CRS/HIPEC at the Charité Department of Surgery were developed on the basis of both experience and the most recent research. These SOPs are part of what made it possible for a Department of Surgery to be certified by the German Cancer Society and OnkoZert as a peritoneal malignancy center.

**Module 1:** This two day workshop will include expert talks, videos, interactive case discussions both for surgical and on postoperative intensive care unit belongings. Participants will experience the most significant problems in the operating room or intensive care unit. The key element of this training is a post-scenario debriefing where the participants can discuss treatment strategies, difficulties, standards, and questions. After this module they are able to prepare a SOP, which fits their clinical situation. Participant are encouraged to write their skeletal own SOP and discuss contents in module 2.

**Module 2:** During three days participants will join the clinical pathway at the Charité Department of Special Surgical Oncology. Multi-disciplinary board discussion, intraoperative live procedures for surgical and anaesthesiological belongings. Postoperative ICU and ward rounds and discussion along the SOP Guidelines of the department. (limited number of participants).

## Prerequisites for Participation

- Surgical or anaesthesiological intensive care training (at least one year of experience on an intensive care unit)
- Anaesthesiologist or surgeon (close to achieving board specialist certification)
- Experience with HIPEC or similar treatment

## Instructional Methods

**Module 1:** Interdisciplinary course; Talks, small groups; Case examples using simulation patient; Hands on: simulator

**Module 2:** Interdisciplinary case discussions, development of SOP for own belongings, intraoperative live procedures for surgical and anaesthesiological

## Patronage

Berufsverband der Deutschen Chirurgen (BDC)  
Berufsverband Deutschen Anästhesisten (BDA)  
Deutsche Gesellschaft für Allgemein- und Viszeralchirurgie (DGAV)  
Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin (DGAI)  
European Society of Surgical Oncology (ESSO)

## Course Location

Seminar rooms: Department of Anesthesiology and Critical Care Medicine  
Campus Charité Mitte.  
Friedrich Busch-Haus (alte Zahnklinik),  
Virchowweg 24 auf dem Campus Charité Mitte in  
10117 Berlin

## Accommodations

We have reserved several rooms for our participants at Hotel Albrechtshof (under the key word **CHARITE011217 from 1.-2.12.2017 or CHARITE041217 from 4.-6-12.2017**). These will be available to book (at the special price) until 10 of November, 2017.

**Hotel Albrechtshof:** Albrechtstraße 8; 10117 Berlin  
albrechtshof@albrechtshof-hotels.de Tel. +49 (30) 308 86 0 Fax +49 (30) 308 86 100  
<http://www.albrechtshof-catering.de/de/ihre-ansprechpartner.html>

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## Secretary

Sandra Wegel  
Tel. +49 (0) 30 450 622 266  
Fax +49 (0) 30 450 7 522 214  
Email: sandra.wegel@charite.de

## Registration

Please send your registration to the secretary (above). Teams from hospitals will receive preference.

Please send the following documents as a pdf-file application

Team (name and department)

Letter of motivation

Letter of Reference from the head of your department

## Deadline for registration

Deadline: 10. November 2017

## Participation fee

**Module 1:** The participation fee is 250 EUR for members of the BDC, BDA, DGAV, DGAI, ESSO and 300 EUR for non-members. This includes registration for the entire course and meals.

**Module 2:** The participation fee is 450 EUR for members of the BDC, BDA, DGAV, DGAI, ESSO and 500 EUR for non-members. This includes registration for the entire course and meals.

## Accreditation

This course is accredited by the *Ärztammer* with 15 CME points of the category C

# Perioperative Management in CRS and HIPEC of Peritoneal Malignancy

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## MODULE 1: Perioperative management of cytoreductive surgery (CRS) and hyperthermic intraperitoneal chemotherapy (HIPEC) in the treatment of peritoneal malignancy

Friday 01.12.2017

- 10:00-10:10 **Welcome**  
*Johann Pratschke*
- 10:10-10:40 **Introduction**  
*Beate Rau, Roland Francis*
- 10:40-13:10 **Multidisciplinary approach in treating patients with peritoneal surface malignancy**  
**Chairs Beate Rau - Roland Francis**
- 10:40-11:00 Surgical approach to peritoneal surface malignancy  
*Beate Rau*
- 11:00-11:20 Cost analysis for CRS and HIPEC  
*Axel Köhler, Thomas Winklmann*
- 11:20-11:40 Anesthetic challenges in CRS and HIPEC  
*Roland Francis*
- 11:40-12:00 **Coffee break**
- 12:00-12:20 Goal directed vs. Standard fluid therapy  
*Christoph Raspé*
- 12:20-12:40 Hemodynamic monitoring during CRS and HIPEC: necessary or nice to have  
*Michael Sander*
- 12:40-13:00 Replacement of blood loss and bleeding: When, what, how much and prognostic influence?  
*Martin Krebs*
- 13:00-14:00 **Lunch break**
- 14:00-18:00 **Cytostatic drugs and Toxicity**  
**Chairs Torsten Schröder - Susanne Marz**
- 14:00-14:15 Rationale for pre- and postoperative chemotherapy CRS and HIPEC  
*Marianne Sinn*
- 14:15-14:30 Rationales for HIPEC (drugs, dosage, toxicity)  
*Gabriel Glockzin*
- 14:30-14:45 Preoperative work up and nutrition  
*Verena Müller*
- 14:45-15:00 Management of cytostatic drugs in the operating theater  
*Martina Seif*
- 15:00-15:15 Managing HIPEC adverse events in the perioperative period  
*Andreas Brandl, Sabine Enkelmann, Jesse Smith*
- 15:15-15:30 Preventing and managing complications associated with CRS and HIPEC

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*Faheez Mohamed*

15:30-16:00 **Coffee break**

16:00-18:00 **HIPEC**

Chairs **Faheez Mohamed - Andreas Brandl**

16:00-16:15 HIPEC protocols and safety: What are the risks?  
*Jörg Pelz*

16:15-16:30 Intraoperative HIPEC: Simulation and principles of HLM during HIPEC (Flow rate, fluid, temperature)  
*Andreas Brandl*

16:30-16:45 Preventing chemo-induced toxicity (from HIPEC and bidirectional HIPEC)  
*Severin Daum*

16:45-17:15 Interactive case discussion on pitfalls in the OR  
*Astrid Fahlenkamp*

17:15-17:30 Final discussion and feedback round  
*Susanne Marz, Roland Francis*

19:30 **Dinner**

**Saturday 02.12.2017**

09:00-10:00 **Postoperative management**

Chairs **Gabriel Glockzin - Susanne Marz**

09:00-09:15 Preventing early complications  
*Matthias Biebl*

09:15-09:30 Pain management throughout the patients journey  
*Susanne Marz*

09:30-09:45 Stepping down from intensive care: Risk and management  
*Felix Aigner*

09:45-10:00 Risk factors to ICU re-admission  
*Magnus Kaffarnik*

10:00-10:40 Case discussion: Management of postoperative complications in ICU  
*Susanne Marz, Michael Sander, Astrid Fahlenkamp*

10:40-11:00 **Coffee break**

11:00-13:00 **Aspects of quality of life and Simulation ICU**

**Susanne Marz, Torsten Schröder**

11:00-11:15 Interactive case discussion: late complications  
*Andreas Brandl*

11:15-11:30 Psychological problems after CRS and HIPEC  
*Antonia Pallauf*

11:30-11:45 Quality of life after CRS and HIPEC  
*Jens Hartmann*

## **Perioperative Management in CRS and HIPEC of Peritoneal Malignancy**

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- 11:45-12:00 Outcome after CRS and HIPEC for colorectal peritoneal metastases  
*Faheez Mohamed*
- 12:00-12:15 Outcome after CRS and HIPEC for gastric cancer peritoneal metastases  
*Beate Rau*
- 12:15-12:30 Local hospital and national guidelines in PSM  
*Jörg Pelz*
- 12:30-12:45 How to process a SOP  
*Andreas Brandl*
- 12:45-13:00 Final discussion, distribution of certificates  
*Susanne Marz - Beate Rau*

### **Lunch Packet**

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## MODULE 2: Live Demonstration of Patients Treatment

### Monday 04.12.2017

- 08:15-09:30      Multidisciplinary Tumor Board (MTB)  
*Faculty*
- 09:30-11:00      Outpatients Care – Preoperative Anaesthesiological SOP's  
*Beate Rau, Sascha Tafelski, Nicolai Andrees*
- 11:00-12:00      Surgical Ward Round - Anaesthesiological Ward Round  
*Beate Rau, Andreas Brandl, Magnus Kaffarnik, Susanne Marz, Roland Francis*
- 12:00-13:00      Lunch
- 13:00-14:00      SOP - Development for own belongings  
*Beate Rau, Andreas Brandl, Nicolai Andrees, Magnus Kaffarnik*
- 14:00-14:30      Coffee Break
- 14:30-15:40      Surgical Ward Round - Anaesthesiological Ward Round  
*Beate Rau, Andreas Brandl, Magnus Kaffarnik, Susanne Marz, Nicolai Andrees*
- 15:45-16:00      OP-Indication  
*Faculty*

### Tuesday 05.12.2017

- 08:30-15:45      Operation Theater Live procedure  
*Beate Rau, Andreas Brandl, Rainer Kuhly, Magnus Kaffarnik*  
  
**Surgery:** *Beate Rau, Andreas Brandl*  
  
**Anaesthesiology:** *Rainer Kuhly, Nicolai Andrees*  
  
**ICU:** *Susanne Marz, Magnus Kaffarnik*
- 15:45-16:00      OP-Indication  
*Faculty*
- 16:00-17:00      SOP - Development for own belongings  
*Beate Rau, Andreas Brandl, Nicolai Andrees, Magnus Kaffarnik*

### Wednesday 06.12.2017

- 08:30-16:00      Operation Theater Live procedure  
  
**Surgery:** *Beate Rau, Andreas Brandl*  
  
**Anaesthesiology:** *Rainer Kuhly, Nicolai Andrees*  
  
**ICU:** *Susanne Marz, Magnus Kaffarnik*
- 16:00-16:30      Conclusions, Evaluation, Certificates, Fare well