

## Contract

### SSAI Inter-Nordic fellowship in paediatric anaesthesia & intensive care medicine 2019 -21

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## Parties involved

1. Fellow: .....
  
2. SSAI representative: *Dr. Torsten Lauritsen, Department of Anaesthesia, The Juliane Marie Centre, Rigshospitalet, Blegdamsvej 9, DK-2100 Copenhagen, Denmark, [torsten.lauritsen@regionh.dk](mailto:torsten.lauritsen@regionh.dk)*
  
3. Chairman of the host clinic(s): .....

## General circumstances

Scandinavian Society of Anaesthesiology and Intensive Care Medicine, SSAI, coordinates an Inter-Nordic fellowship (training program) in Paediatric Anaesthesia and Intensive Care Medicine for young Scandinavian specialists in Anaesthesiology:

- 24 months of training in paediatric anaesthesia and intensive care
- 3 months (minimum) of paediatric intensive care medicine during the 2 years
- 1 month of exchange in another county during the 2 years
- 4 theoretical courses
- Assessment after each theoretical course
- Academic project
- Logbook of clinical practice

During the two-years training period the fellow (trainee) is designated to a host clinic at a highly specialized centre. The host clinic(s) will employ the fellow in an appropriate position for a minimum of 12 month. The remaining 12 m can be at the same host clinic or at another clinic in an appropriate position for paediatric anaesthesia. The host clinic(s) will appoint a tutor for the fellow. It is the responsibility of the tutor to ensure that the fellow obtain the theoretical, cognitive, attitudinal, practical and procedural skills as recommended in the logbook (Appendix 1). The fellow will participate in and complete four seminars organized by the steering committee appointed by the SSAI during the fellowship (Appendix 2). Additionally, the fellowship includes a one-month exchange (auscultation and/or clinical practice) program with a university clinic in another Nordic country. The exchange period should be no less than 4 weeks or alternatively two periods of no less than 14 days. The host clinic(s) pay for the exchange period and the salary during this period.

Deviations from the standard SSAI contract must be approved by the local representative of the SSAI Steering Committee for the Inter-Nordic fellowship program in Paediatric Anaesthesia and Intensive Care Medicine and the program chair.

### **Responsibilities of the host clinic(s)**

- The host clinic(s) in cooperation with the SSAI Steering Committee will organize a training program for the trainee covering all fields of Paediatric Anaesthesia and Intensive Care Medicine.
- The fellowship program will commence September 1<sup>st</sup> 2019 in all Nordic countries.
- The host clinic(s) will employ the fellow in an appropriate position during the fellowship.
- The host clinic(s) will appoint a tutor for the fellow. The tutor supervises the fellow in his/her clinical services and ensures a proper balance in the various clinical settings (cases as well as procedures). The tutor also supervises the fellow with the logbook.
- The tutor and the fellow are encouraged to evaluate the clinical progress at least every three months.
- All expenses for the SSAI-coordinated fellowship program in Paediatric Anaesthesia and Intensive Care Medicine (including travelling, accommodation and a fee for each course) must be covered by the host clinic(s).
- The host clinic(s) will cooperate with the SSAI Steering Committee in organizing an exchange program (auscultation and/or clinical practice) with a clinic in another Nordic country. The duration of this exchange period should be at least one month at one clinic or alternatively two periods of 14 days each.

### **Responsibilities of SSAI steering committee**

- SSAI will set up a Steering Committee with at least one member from each Nordic country. This committee will coordinate the fellowship program and assist in solving practical problems that may arise.
- The steering committee organize during the 2-years fellowship program 2019-21 four seminars, of four or five day's duration. These seminars will circulate in all the Nordic countries and the common language will be English.
- The steering committee will facilitate, together with the participating host clinics, an exchange program that allows the trainees a temporary stay in a clinic in another Nordic country.
- The members of the steering committee will mentor the academic projects during the fellowship.
- Any absence (omitting annual leave, etc.) during the two-year fellowship period exceeding 4 weeks in duration must be compensated for correspondingly.
- At the end of the training program, the SSAI will issue a fellowship diploma.

## Responsibilities of the trainee

- During the program, the fellow will actively participate and assist the host clinic(s) in performing clinical duties including acquisition of advanced theoretical knowledge and training in cognitive, attitudinal, practical and procedural skills as recommended in the logbook.
- The fellow has to record cases in a logbook.
- The tutor and the fellow are encouraged to evaluate the clinical progress at least every three months.
- When the fellowship is completed, the fellow submits a report evaluating the program. This report should include information about clinical and theoretical details as well as information about the exchange program. After the tutor has signed the report, it is sent to the chair of this program and the candidate receives the diploma.
- Concluding every theoretical course the candidate has to fulfil a web-based test.
- At the final course, the candidate has to present a project – defined at the first course.

## Signatures

Fellow \_\_\_\_\_ Date: \_\_\_\_\_

SSAI representative \_\_\_\_\_ Date: \_\_\_\_\_  
Torsten Lauritsen, chairman of the training program

Chairman of host clinic \_\_\_\_\_ Date: \_\_\_\_\_

Regarding payment, would you please specify:

Invoice address:

Code for paying institution:

E-mail address, where to send the invoice:

## Appendix 1

### Logbook for the SSAI Inter-Nordic fellowship in paediatric anaesthesia and intensive care medicine

The aim of the logbook is to register the practical training achievements during the two-year fellowship program.

The clinical training should cover all essential fields of paediatric anaesthesia and intensive care medicine. The exchange program may complement the clinical practice of the home clinic. The tutor will follow the enrolment of cases in anaesthesia and intensive care medicine during the fellowship.

The fellow should participate in clinical and education rounds of the home clinic and serve as a full time paediatric anaesthetist in appropriate position of the clinic. The fellow must participate in all four courses organised during the two-year SSAI fellowship program.

#### **The fellow should become familiar with the following topics of anaesthesia:**

- Neonatal anaesthesia
- Anaesthesia for thoracic and cardiovascular surgery
- Anaesthesia for orthopaedic surgery
- Anaesthesia for neurosurgery
- Anaesthesia outside the operation theatre
- Management of a difficult airway
- Management of central (epidural/sacral) and peripheral blocks
- Management of acute and chronic pain

#### **Number of cases:**

- Anaesthesia for 30 neonates of less than 30 days of age
- Anaesthesia for 100 infants of between 1 and 12 months of age
- Insertion of 20 central venous catheters
- Insertion of 20 arterial lines

#### **The fellow should become familiar with the following topics of intensive care:**

- Ventilator treatment
- Total parenteral nutrition
- Fluid management
- Circulatory support
- Treatment of trauma and burned children
- Transportation of the critically ill child

#### **Other topics:**

- Technique for advanced intubation/evaluation of the airways
- Knowledge about ethical standards and experience in dealing with parental psychology and their emotional strain during the treatment of the sick child.

## Appendix 2

### Curriculum

#### Content of the program

- Two years of paediatric anaesthesia fellowship
- A minimum of 3 months of paediatric intensive training
- A one month exchange program in a foreign country
- Four theoretical courses
- A distance-learning program
- Web-based testing
- An academic project

After fulfilling the course, the candidate will be awarded an SSAI fellowship certificate on paediatric anaesthesia and intensive care medicine.

#### Aims of the program

This course aims at educating paediatric anaesthetists with the overall objectives of enhancing the quality of anaesthetic care for paediatric patients, improving patient safety by reducing the incidence and severity of anaesthesia-related complications, increasing patient satisfaction in the Scandinavian countries and improving the development of paediatric anaesthesia as a subspecialty.

#### Course participants

Applicants are members of the SSAI and specialists in anaesthesiology with a special interest in paediatric anaesthesia. Participants are selected according to their affiliation, academic merits, clinical skills and motivation by the discretion of the steering committee of the fellowship program. The number of participants will be decided by the steering committee. The fellowship will start every second year.

#### Educational strategies

The training objectives will be achieved using a number of training methods. The program is based on interactive participation and reflection on competences. A scientific, evidence-based approach to the practical and theoretical work during the participation of the fellowship is mandatory.

#### Mentor

The host department will appoint a personal educational supervisor for the trainee. Fellows are required to maintain a portfolio – a collection of evidence of learning. The portfolio should be updated continually and reviewed every three-fourth month by the mentor. This will serve as a stimulus to ensure all training requirements are fulfilled. Fellows are expected to maintain a logbook of the clinical activities. The logbook is part of the portfolio.

### **Clinical training**

During the two-year period, the fellow will be employed in an appropriate position at one or more different departments. A minimum of one year of clinical training should be at a university clinic. The fellow is expected to become involved in teaching and training, research and audit, and management of a paediatric anaesthetic service.

### **Exchange Program**

The fellowship includes an exchange program of one month in a foreign country.

### **Theoretical courses**

Four courses (5 + 4 + 4 + 5 days)

Presentations will be case based. Presentations must incorporate newest evidence available. The course form will include lectures, case discussions, pro- and con debates, workshops, group discussions and simulation. Feedback will be given on content, form and method. The candidates will be assigned topics for lectures.

### **Course 1 – Anaesthesia basic**

#### **Reykjavik week 40 - September 30<sup>th</sup> - October 4<sup>th</sup> 2019**

5 days course 1-2 months after the beginning of the fellowship program. The program must be a mixture of lectures/workshops/simulation by candidates, steering committee members and local experts. By the end of the course the projects and groups for the projects will be presented. The topics will be decided by the steering committee.

- Introduction
- Website and testing
- Projects
- Paediatric pharmacology
- Respiratory physiology
- Paediatric airway management
- Preoperative evaluation
- Premedication (pro/con)
- Postoperative care
- Monitoring and equipment
- Induction (i.v. vs. inhalation)
- Maintenance of anaesthesia
- Point of care ultrasound
- Management of a difficult peripheral iv access
- Use of NMBA
- Anaesthesia awareness in children
- Fluid therapy
- Haematology and transfusion strategies
- Regional anaesthesia
- Pain management (drugs & administration)
- Chronic pain
- Vascular access
- Complications and mortality of anaesthesia

### **Course 2 – Anaesthesia neonatal**

#### **April/May 2020**

Four days of primarily neonatal anaesthesia and intensive care medicine. Lectures, workshops, case discussion and simulation will be used.

- Neonatal physiology
- Special neonatal pharmacology
- Fluid and nutrition (per- and postoperative)
- Thermal regulation
- Neurotoxicity and anaesthesia
- Local anaesthesia
- Pain treatment
- Anaesthesia for the former preterm baby
- N-CPAP
- Ventilatory support (conventional/HFV)
- Neonatal resuscitation
- Congenital cardiac malformations
- Congenital diaphragmatic hernia and gastroschisis
- Esophageal atresia
- NEC/atresia
- Primary pulm hypertension and perioperative treatment
- The “blue” neonate; CDH? CHD? Sepsis? (cases)
- Inborn errors of metabolism/syndromes

### **Course 3 –Anaesthesia special**

#### **Fall 2020**

Four days course with focus on special anaesthesia.

- Cardiac anaesthesia – basic
- Anaesthesia of the uncorrected patient with CHD
- Anaesthesia of the post cardiac patient
- Progressive neuromuscular disorders – anaesthesia
- Paediatric trauma
- Burns
- Traumatic brain injury – anaesthesia
- Difficult airway
- Airway-/facial abnormalities
- Drowning and hypothermia
- Paediatric resuscitation
- Therapeutic hypothermia
- Syndromes
- Osteogenesis imperfecta and anaesthesia
- AV-shunts (cerebral, others)
- Rapid sequence induction (pro/con)
- Use of ultrasound in cannulation or blockade
- “I’ve found these equipment to be useful/rubbish”-database
- Teamwork/leadership with or without simulation
- Anaesthesia outside OR
- Difficult intubation /airway
- Regional anaesthesia/ blockades
- Home ventilation / tracheostomies
- Transportation of critically ill child

### **Course 4 – Intensive care medicine**

#### **Spring 2021**

5 days course at the end of the second year with mainly intensive care medicine. The projects will be presented by the candidates during the course.

- Ventilatory strategies
- Acute airway problems (RS, asthma, epiglottitis)

- Extubation the PICU setting (timing and complications)
- Complications of long term tracheal intubation
- Sepsis in the PICU
- Inotropes
- Treatment of hepatic failure (eg. MARS)
- Renal failure
- CRRT in the PICU
- Sedation and treatment of pain in the PICU
- Nutrition: Iv+ enteral
- Brain death and donor treatment
- Difficult parent / facing parents when critically ill child
- Termination of critical care (end of life decision)
- Scoring systems in PICU and data management
- ECMO and other support
- Traumatic brain injury – PICU
- Meningitis
- Epilepsy
- Progressive neuromuscular disorders – PICU

### Estimated costs

Four courses of four to five-days will be held during the program. The language is English. Total cost for the four courses will be approx. 6.000 Euros per fellow. The cost for each course will be approx. 1.500 Euros per fellow, divided into:

Course fee each course 750 Euro, travel expenses 250 Euro, accommodation and food 500 Euro.

The participating centers will host the candidates without costs during their exchange; however salary and travel expenses must be covered by the host clinic.