

OBLIGATORY MODULES

Clinical modules

Module IM: Inpatient management of paediatric patients. The trainee acquires expertise in the management of all hospitalized infants, children and adolescents with acute and chronic respiratory diseases. Full-time assignment of the trainee, who is to be employed in a position of responsibility, is required. The ward or wards in which training takes place must be under the direct medical supervision of the tutor.

Required minimum: duration of 12 months

Module OM: Outpatient management of children with various respiratory disorders in a specialized paediatric respiratory outpatient clinic. The trainee is required to provide competent outpatient care in a responsible position under the supervision of the tutor.

Required minimum: duration of 12 months

Module PFT: Pulmonary function testing in paediatric patients. This training must take place in a lung function laboratory specialising in or exclusive for paediatric patients; the minimum spectrum of techniques available must include spirometry, recording of flow-volume curves, plethysmography, bronchial provocation testing, and blood gas analysis. The trainee becomes proficient in recording, evaluating and interpreting the measurements. In addition, she/he acquires skill in training children to cooperate, as well as gaining experience in hygiene, maintenance and calibration of equipment. Considerable knowledge of the physiological background is mandatory.

Required minimum: no specifications; completion of training certified by tutor

Module FB: Flexible bronchoscopy including bronchoalveolar lavage in paediatric patients of all age groups. After attending a top-level introductory course, the trainee first attends procedures as assistant, and then performs endoscopies her/himself under the guidance of an expert tutor.

Required minimum: assist 50 and perform 25 bronchoscopies, including lavages

Module AD: Allergological diagnosis and treatment of paediatric patients, including practical experience in skin testing and other relevant diagnostic methods, especially in-vitro methods for diagnosing allergy and airway inflammation. Experience in immunotherapy is not mandatory. The training has to focus on children with asthma and allergic disease of the upper airways, but should also include non-respiratory allergic disorders.

Required minimum: no specifications; completion of training certified by tutor

Module IL: Imaging of the lung of paediatric patients with a wide variety of respiratory disorders. The trainee attends radiology rounds, but also evaluates chest radiographs her/himself under supervision. Additional experience in evaluating CT scans of the lung and MR images of the mediastinum is mandatory.

Required minimum: no specifications; completion of training certified by tutor

Module AT: Aerosol therapy for infants, children and adolescents. The trainee acquires theoretical knowledge and practical experience in prescribing and teaching appropriate modes of aerosol treatment to paediatric patients and parents.

Required minimum: no specifications; completion of training certified by tutor

Module CM: Management of congenital malformations of the respiratory tract. Experience includes a wide variety of lesions in the upper and lower respiratory tract, appropriate diagnostic and therapeutic strategies, especially long-term respiratory care, as well as cooperation with surgical partners.

Required minimum: no specifications; completion of training certified by tutor

Module BA: Management of bronchial asthma in paediatric patients. Experience includes long-term management of the chronic disorder as well as emergency treatment of acute exacerbations, both in the inpatient and outpatient setting. Acquired expertise covers all aspects of asthma treatment in all paediatric age groups.

Required minimum: no specifications; completion of training certified by tutor

Module CF: Management of cystic fibrosis in paediatric patients. The trainee learns to provide care both in an in- and an outpatient setting. Training covers all aspects of cystic fibrosis care, and includes dealing competently with psychosocial issues.

Required minimum: no specifications; completion of training certified by tutor

Module WD: Management of wheezing disorders in infants and children. The trainee learns to competently assess and treat recurrent wheezing in the first years of life. This acquired experience includes chronic lung disease of prematurity (bronchopulmonary dysplasia).

Required minimum: no specifications; completion of training certified by tutor

Module LI: Acute and chronic lung infection. The trainee acquires experience in the management of children with croup, viral bronchiolitis, and all forms of pneumonitis, including lung abscess, empyema, and bronchiectasis. This experience includes management of childhood tuberculosis in countries with a high prevalence of this disease. Acquired knowledge also covers microbiological techniques for identifying the aetiology of infections and skill in various techniques for sampling infectious material.

Required minimum: no specifications; completion of training certified by tutor

Module CA: Consultation and assistance. The trainee learns to provide competent consultation and technical assistance to other paediatric specialists, especially to oncologists, cardiologists, neonatologists, and intensive care specialists, but also to otolaryngologists, thoracic and paediatric surgeons, and others who manage children with complex conditions that affect the respiratory system. Emphasis is placed on close cooperation with Adult Pneumologists, especially on establishing a continuum of care from child- to adulthood for patients with chronic respiratory disorders.

Required minimum: no specifications; completion of training certified by tutor

Module OA: Organisation and administration. The trainee acquires experience in the administration of medical services in a tertiary care centre and learns to organize and to update diagnostic, therapeutic and educational programs. In addition, the

trainee gains experience in applying quality assurance principles in her/his clinical, academical, and organisatory work.

Required minimum: no specifications; completion of training certified by tutor.

Academic modules

Module TE: Teaching experience for transfer of specialized knowledge. The trainee learns to structure, prepare and present lectures to different target audiences. This training includes bedside teaching and preparation of teaching material.

Required minimum: Ten lectures in two or more teaching programs

Module RE: Research experience in the field of PRM. Under expert supervision, the trainee learns to plan, conduct, evaluate and publish research projects. In addition, she/he gains practical experience in presenting results to an international audience in form of oral or poster presentations.

Required minimum: One publication in the field of PRM (first author) in an international, peer-reviewed journal, plus one oral or poster presentation at an international meeting.