

Post Graduate Course in Nurse Anesthesia, Basel, Switzerland

Program director: Christoph Schori
Postgraduate Course in Anesthesia Nursing
Department of Anesthesia and Intensive Care Medicine
University Hospital Basel
Spitalstrasse 21
CH-4031
Basel, Switzerland

Anesthesia education programs holding Level 3: IFNA Accreditation have met eligibility and application requirements for IFNA Accreditation. Recognized programs have also undergone a successful self-study and on-site visit to demonstrate substantial compliance with "IFNA's Educational Standards for Preparing Nurse Anesthetists". Information about the curriculum is current at date of application.

IFNA Accreditation effective May 2013 – May 2018

Postgraduate studies in Anesthesia Nursing NDS HF is a practice-oriented advanced nursing training at the level of a professional college offered as a modular learning opportunity through the University Hospital Basel. The principles of the comprehensive training course and the existing practice-oriented educational concept is based on the "Curriculum (RLP) for Anesthesia Nursing NDS HF"(2009)*. The curriculum framework is available in German and French language. As an education provider, the University Hospital Basel integrates the themes of key importance to the profession and specific requirements of each specialty field. The curriculum is practice- and activity-oriented, while the transfer from theory into practice and vice versa is of high priority."

*https://www.odasante.ch/fileadmin/odasante.ch/docs/Hoehere_Berufsbildung_und_Hochschulen/Geschaeftsreglement-EK-AIN.pdf

CURRICULUM OVERVIEW

Credential: State Diploma in Nurse Anesthesia

Courses

Introduction and basics (AN 1)

The history of anesthesia
An overview of anesthetic procedures
Minimal safety standards
Patient monitoring, principles and interpretations: NIBP, ECG, SpO₂, CO₂, BIS
Hygiene concept for the operating theater
Intravenous and arterial access
Ventilation equipment: assembly, servicing, maintenance
Ventilation masks and endotracheal tubes
Volatile and intravenous anesthetics
Opioids and non-opioids
Muscle relaxation and neuromuscular monitoring
Local anesthesia
Cardiovascular medications
Infusion and transfusion therapies, balancing
Blood saving methods
Perioperative heat therapy

Anesthesia in gynecology
Anesthesia in orthopedics
Patient rights, liability questions, delegation
Basic Life Support BLS (Swiss Red Cross SRC certification)
Simulator training
Error culture and Critical Incident Reporting System (CIRS)
Online Learning and Training (OLAT)

**Techniques in anesthesia nursing
(AN2)**

Respiratory physiology, artificial ventilation, and forms of artificial ventilation
Respiration devices: common, variations
The expected and unexpected difficult airway
Fiberoptics: preparation, application, maintenance
Clinical and mechanical monitoring
Pharmacology 1: muscle relaxants and hypnotics
Basics of acid-base homeostasis
Infusion and transfusion therapy
Back-friendly techniques in the operating theater
Advanced Life Support (ALS)
Procedure following a stab wound
Isolation procedures in the operating theater

**Clinical anesthesia 1
(AN3)**

Anatomy and physiology of the circulatory system
Arrhythmias
Clotting
Lung embolism
Anesthesia in heart failure
Anesthesia and shock
Anesthesia with pacemakers and ICD
Haemotherapy
Blood gases and - analysis
Simulator training

**Clinical anesthesia 2
(AN4)**

Anesthesia in obese patients
Anesthesia in otolaryngology and jet ventilation
Neuro-anaesthesia 1
Anesthesia in patients with liver and kidney disease
Anesthesia for vascular surgery
Anesthesia in obstetrics
Pediatric anesthesia
Anesthesia for abdominal surgery
Geriatric anesthesia
Anesthesia in patients with asthma and COPD
Anesthesia in patients with heart disease
REGA (Swiss air rescue): partner in the emergency room
Personal management of stress

**Special anesthesia
(AN5)**

Neuro-anesthesia 2
Anesthesia in ophthalmology
Anesthesia in cardiothoracic surgery
Anesthesia in vascular surgery
Anesthesia in polytrauma patients
Anesthesia for kidney transplants
Anesthesia for burns
Anesthesia for pregnant and breast-feeding mothers
Critical intraoperative situations on the simulator
Introduction the diploma exam with advice on writing

**Exam preparation
(AN6)**

Practice-relevant clinical themes
Education and leadership of adults
The colloquium: structure, preparation, practice
Professional organizations: SIGA, SGAR, SBK, IFNA
Learning objective revision AN 4/5

**Ethical methods in nursing
(ID 1)**

Introduction to the fundamentals of ethics
Responsibility in nursing, scope of practice
Ethical dilemmas
Ethical decision making
Change of perspective

Evidence-based methods in nursing / writing workshop

Evidence-based nursing practice (modeled after Behrens and Langer 2004, 2006)
Practice development in nursing; advanced nursing practice
Research: practice relevance, principles, approaches (qualitative and quantitative research, action research), and introduction to design including qualitative and quantitative data analysis
Different forms of specialized literature (theoretical works, research reports, review articles, expert opinions, position papers, etc.)
Literature search: questions, search, selection, acquisition, processing
Ethical principles regarding research on humans
List of references according to APA standards
Creative writing techniques
Reflecting on own writing process