

Postgraduate Studies in Anesthesia Nursing, University Hospital Basel

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Diploma Awarded: Postgraduate Diploma in Nurse Anesthesia NDS HF

CURRICULUM OVERVIEW:

Introduction1 (AIN1 in Cooperation with Intensive and Emergency Care Nursing)

Introduction + Welcome Departement "Aus- und Weiterbildung" (2) Basics
physiology (2)
Ventilation masks, laryngeal masks and endotracheal tubes (2) Perioperative
temperature management (2)
Heart and Circulation (4) Kidneys
(2)
ECG (4)
Water – Electrolyts (2)
Respiratory anatomy and physiology (4)
Acid - bases system (2)
Neuro anatomy (4)
Fluid therapy (2)
Blood Transfusion therapy (2)
Blood and Coagulation (2)
Pharmacology (4)
Hygiene in OR and ICU (2)
Transfer-Hours in Anesthesiology (22)

Introduction1 (AN1 Anesthetists only)

Opioids and non-opioids (4) Patient
positioning in the OR (4) Muscle
relaxation (2)
BLS_AED_training (2)
Hypnotics (4)
Basic patient monitoring: NIBP, SpO₂, CO₂ (4)
Volatile anesthetics and medical gases (4) Cardio -
active medications (4)
Ventilation equipment: assembly, servicing, maintenance (4)
Minimal safety standards (2)
Balancing Fluids in OR (2)
Airway-Training (4)
Error culture and Critical Incident Reporting System CIRS (2)
Introduction-Maintenance-Termination of general Ans in SIM_training (8) Self-
Study (4)
Exam AN1

120

Introduction2 (AN2)

Heart rhythm (ECG) analysis (4)
Regional Anesthesia and Local-Anesthetics (4)
Ventilation modes (4)
Difficult Airway management (2)
Anticoagulation drugs (2)
External and internal defibrillation (2) Acute
Pain Service APS (4)

Monitoring NMM, BIS, arterial Blood Measuring, CVP (8) Blood saving methods (2)
 Anatomy and Physiology of visceral organs (Self-Study 8) Students Presentation of visceral organs (4)
 Anesthesia for patient with obesity (2)
 Anesthesia in Orthopedics (2) Anesthesia for elderly patient (4)
 Anesthesia for patients with ophthalmic surgery (2) Anesthesia in obstetric (2)
 Anesthesia in urology (2)
 Self-Study (8)
 Simulation training (8) 80

Clinical Anesthesia1 (AN3)

Malignant hyperthermia (2)
 Opioids free/reduced Anesthesia (2) Various Embolism (2)
 Anesthesia and various shock states (2)
 ROTEM Analysis (2)
 Blood gas analysis (2)
 Advanced Cardiac Life Support ACLS (2)
 Anesthesia for visceral surgery (2)
 Anesthesia for patients with cardiac risk factors (2) Anesthesia and Pacemaker (2)
 Resuscitation of the new born (2)
 Ethical clinical Questions and Dilemmata (2) Self Studies (8)
 Exam AN2 (2) 40

Clinical Anesthesia2 (AN4) Monitored

Anesthesia Care MAC (2) Anesthesia for children (2)
 Anesthesia for patients with traumatic brain injury (2) Anesthesia for ENT patients (2)
 Anesthesia for patients with COLD and asthma (2)
 Anesthesia for Neuro surgical Part 1 (2)
 Anesthesia for patients with kidney and liver diseases (4)
 Anesthesia for patients with endocrinological diseases (2)
 Prehospital anesthesia (4)
 Task for Individual stress reflection and management (1) Self studies (8)
 Exam AN3 (2) 40

Evidence Based Medicine (AN5)

Basics of evidence based medicine, Research, Databases (PubMed, Cochrane) (8) 8

Writing Workshop (AN6)

Introducing scientific writing, explorative writing, phases of writing (12)
 Information for personal thesis (4)
 Task for personal disposition of thesis (8) 24

Special Anesthesia (AN7)

Anesthesia for neuro surgical Part 2 (2) Anesthesia for patients with chronic pain (2)
 Anesthesia for pregnant and breastfeeding women (2)

Anesthesia for patients with severe burns (2) Anesthesia for multi – trauma patients (4)
 Anesthesia for patient for transplantation incl. kidney (2)
 Anesthesia for patients with vascular surgery (4) Anesthesia for thoracic surgery (2)
 Transcultural nursing in Anesthesia care (4)
 Patient rights, patient advocacy and liability issues (2) Task for Poster Presentation (2)
 Self studies (8)
 Exam AN4 (2) 40

Exam Preparation (AN8)

Repetition of 15 most important subjects in Anesthesia care (32)
 National/International professional political organisations (2) How to do a colloquium (1)
 Modern working models, interprofessional collaboration and communication (2) Self Studies (8)
 Exam AN5 (2) 48

Total Hours 408

Clinical contact hours:

540

Clinical contact hours are covered by the clinical instructor in practice. According to the national framework the minimum of clinical contact hours is 540. Over 2 years all aspects of anesthesia, communication, collaboration, management, patient advocacy, scholarship and professionalism are taught and tested in practice (CanMEDS). One of the major focus of clinical contact hours is the application of theory into practice. Clinical contact hours are also used to analyze practice situations and to develop self – learning skills.