

## Anesthesia Nurses Education Program of Lanzhou University Second Hospital

82, Cuiyingmen, Chengguan District, Lanzhou City, Gansu Province

China

Program director: Xinman Dou

**INITIAL Registration effective: March 2022 – March 2027**

After applying for level 1 Registration the program was evaluated following the process described in the International Federation of Nurse Anesthetists ANESTHESIA PROGRAM APPROVAL PROCESS (APAP): OPERATIONAL POLICIES AND PROCEDURES 2017 (<http://ifna.site/app/uploads/2017/06/Operational-Policies-APAP-June-2017.pdf>).

A current curriculum was presented. Initial Registration was granted based on the program's meeting eligibility requirements.

### Curriculum Overview

Degree/ Diploma / **Certificate** awarded: **Certificate** for Completion of the Anesthesiology Specialist Nurse Education Program of the Lanzhou University Second Hospital

curriculum content		credit	hour
<b>Semester I (First year)</b>			
Subject overview	The development history of anesthesia nurses The Scope of practice of anesthesia nurses The Legal ethics of anesthesia nurses	2	8
Anesthetic anatomy	Head and neck anatomy and major innervation Thoracic anatomy and innervation Anatomy of endotracheal intubation channels Abdominal anatomy and innervation Pelvic and perineum anatomy and innervation Spinal region anatomy Upper and lower limbs anatomy and innervation Neuroanatomy of anesthesia and analgesia	9	36
Anesthesia physiology	Effects of anesthesia on circulatory system Effects of anesthesia on respiratory system Effects of anesthesia on the nervous system Effects of anesthesia on endocrine system, liver and kidney Effects of anesthesia on digestive and reproductive systems Effects of anesthesia on physiology in the aged and children	7	28
	Pathophysiology and anesthesia safety in neurological diseases Pathophysiology and anesthesia safety in respiratory diseases Pathophysiology and anesthesia safety in circulatory diseases		

Anesthesia pathophysiology	Pathophysiology and anesthesia safety of liver, kidney and digestive diseases Pathophysiology and anesthesia safety in patients with mental illness Pathophysiology and anesthesia safety in patients with musculoskeletal disease and pain	10	40
Pharmacology of anesthesiology I	Pharmacokinetics Pharmacodynamics Sedative hypnotic and antipsychotic Narcotic analgesics and antagonists Inhalant anesthetics Intravenous anesthetics Local anesthetic	8	32
Anesthetic Chemistry and Physics	Basic principles and structures of anesthesia and first aid equipment Chemical principles in anesthesia practice Physics principles in anesthesia practice	4	16
Basic principles of anesthesia	Inspection and safe use of anesthesia machine, ventilator and auxiliary equipment Preoperative evaluation and planning of basic anesthesia care Overview and selection of different anesthesia methods Nurse-patient communication and inter-professional communication and cooperation Anesthesia safety management and infection control Patient health education and psychological care File record keeping	8	32
seminar	Review on development and training of anesthesiology nurses in China other countries	1	4
seminar	Cross-professional communication and cooperation among anesthesiologists	1	4
Clinical Practice I		63	252
<b>Semester II (First year)</b>			
Pharmacology of anesthesiology II	Skeletal muscle relaxants and antagonists drug that acts on choline receptors drug that acts on adrenergic receptors Anti-heart failure and arrhythmia drugs Controlled antihypertensive drugs and plasma volume expansion drugs Drug-dependence and perioperative drug interactions	7	28

Anesthesia evaluation	Pre-anesthesia visit Internal medical treatment medication evaluation Post-anesthesia assessment and visit	4	16
Anesthesia monitoring and care	Airway and ventilation monitoring and nursing Posture and oxygenation monitoring and nursing Circulatory system monitoring and nursing Vital signs monitoring and nursing Neuromuscular function monitoring and nursing Anesthesia depth monitoring and nursing	7	28
Principles of surgical anesthesia in various departments	Gynecology and obstetrics surgery anesthesia and nursing Orthopedic surgery anesthesia and nursing General surgery anesthesia and nursing Cardiothoracic surgery anesthesia and nursing Plastic surgery anesthesia and care Ear, nose, throat and eye surgery anesthesia and nursing Nervous system surgery anesthesia and nursing Urogenital surgery anesthesia and nursing	12	48
Critical care	Life support and first aid such as CPR (basic and advanced life support) Other life support items such as intubation, ventilation, arterial and venous puncture management and monitoring of vasoactive substances, fluid resuscitation	6	24
Management of anesthesia complications	Evaluation and diagnosis of anesthesia complications Treatment and rescue of anesthesia complications Prevention and control of anesthesia complications Outcome evaluation of anesthesia complications	6	24
seminar	Discussion on the core competence of anesthesiologists	1	4
seminar	Recent advances in anesthesia, critical disease monitoring and treatment	1	4
Clinical Practice II		63	252
<b>Semester III (Second year)</b>			
Principles of anesthesia for special groups	Anesthesia and nursing during daytime surgery Anesthesia and nursing with gastroscopy and bronchoscopy Anesthesia and nursing for burn and trauma patients Anesthesia and nursing for critically ill patients Anesthesia and nursing for the elderly and children	9	36
	Perioperative patient volume assessment Types of fluids commonly used during perioperative period		

Fluid and airway management	Perioperative fluid therapy Perioperative blood transfusion management Perioperative artificial airway establishment and management Management and nursing of difficult airway Tracheal extubation technology and cooperation	8	32
Pain management	Pain mechanisms Pain classification and assessment Pain treatment methods and adverse reactions Perioperative pain management Automatic analgesia technique Labor analgesia management	7	28
Anesthesia nursing management	Anesthesia nursing team building and development Construction and management of pre-anesthesia and recovery room Management of narcotic consumables Information management of anesthesia nursing Nursing quality evaluation standards and continuous improvement Occupational risk and health management of medical staff	7	28
Anesthesia nursing teaching	Common teaching theories and methods Teaching content and goal setting Lesson preparation and lesson plan writing Teaching effect assessment and evaluation Teaching practice of anesthesia nursing	7	28
Research on anesthesia nursing	Literature retrieval and management Research design and topic selection Writing of nursing papers Analysis and processing of research data Practice and application of evidence-based evidence and new nursing methods	7	28
seminar	Recent advances in anesthesia and pain management	1	4
seminar	The future prospect of the sustainable development of anesthesiology nurses	1	4
Clinical Practice III		63	252
		330	1320

**Note: The Course includes theory course 564 hours, practice course 756 hours, 4 hours =1 credit, total credit 330 points**