

课程详述

COURSE SPECIFICATION

以下课程信息可能根据实际授课需要或在课程检讨之后产生变动。如对课程有任何疑问，请联系授课教师。

The course information as follows may be subject to change, either during the session because of unforeseen circumstances, or following review of the course at the end of the session. Queries about the course should be directed to the course instructor.

1.	课程名称 Course Title	麻醉学概论 Introduction to Anesthesiology
2.	授课院系 Originating Department	医学院 School of Medicine
3.	课程编号 Course Code	MED322
4.	课程学分 Credit Value	1.5
5.	课程类别 Course Type	专业选修课/ Major Elective Courses
6.	授课学期 Semester	春季/ Spring
7.	授课语言 Teaching Language	中英双语 English & Chinese
8.	授课教师、所属学系、联系方式 Instructor(s), Affiliation & Contact (For team teaching, please list all instructors)	张中军，南方科技大学附属第一医院， luckydoczhang@163.com Zhongjun Zhang, 1st Affiliated Hospital of SUSTech, luckydoczhang@163.com
9.	实验员/助教、所属学系、联系方式 Tutor/TA(s), Contact	王博，医学院， wangb7@sustech.edu.cn Bo Wang, School of Medicine, wangb7@sustech.edu.cn
10.	选课人数限额(可不填) Maximum Enrolment (Optional)	

11. 授课方式 Delivery Method	讲授 Lectures	习题/辅导/讨论 Tutorials	实验/实习 Lab/Practical	其它(请具体注明) Other (Please specify)	总学时 Total
学时数 Credit Hours	16		16		32
12. 先修课程、其它学习要求 Pre-requisites or Other Academic Requirements	无/NA				
13. 后续课程、其它学习规划 Courses for which this course is a pre-requisite	待定/To be determined				
14. 其它要求修读本课程的学系 Cross-listing Dept.	待定/To be determined				

教学大纲及教学日历 SYLLABUS

15. 教学目标 Course Objectives

本课程教学目标是循序渐进的理论授课和临床见习，使学生掌握和熟悉麻醉学的核心理论和技术，包括临床麻醉、生命功能的监测与调控、重要器官功能的维护和治疗和疼痛诊疗等。使临床医学的学生，无论将来从事何种专业，都可以应用麻醉学的理论和技术来分析和处理临床问题。

The teaching goal of this course is to enable students to master and be familiar with the core theories and techniques of anesthesiology, including clinical anesthesia, monitoring and control of vital functions, maintenance and treatment of vital organ functions, pain therapy through theoretical teaching and clinical practice. We aim to let our medical students master the theories and techniques of anesthesiology and to analyze and solve clinical problems, no matter what major they are engaged in in the future.

16. 预达学习成果 Learning Outcomes

本课程完成后，学生应掌握基本麻醉学相关理论，熟悉各类麻醉方法与监测，了解各类手术的麻醉管理。

After the completion of this course, students should master basic anesthesia theories, be familiar with various anesthesia techniques and monitoring methods, and understand the anesthesia management of various operations.

17. 课程内容及教学日历（如授课语言以英文为主，则课程内容介绍可以用英文；如团队教学或模块教学，教学日历须注明主讲人）

Course Contents (in Parts/Chapters/Sections/Weeks. Please notify name of instructor for course section(s), if this is a team teaching or module course.)

第一章 绪论

了解麻醉学发展的历史概况，熟悉现代麻醉学专业的任务和范围

Introduction

Understand the historical profile of the development of anesthesiology and be familiar with the tasks and scope of modern anesthesiology specialties

第二章 病人术前病情评估与准备

掌握术前评估的内容和方法

熟悉麻醉前准备和用药

Preoperative evaluation and preparation of patients

Master the content and method of preoperative evaluation

Familiar with preanesthetic preparations and medications

第三章 局部麻醉

掌握局部麻醉药的毒性反应和过敏反应

熟悉局部麻醉的种类

了解周围神经阻滞的种类

Local Anesthesia

Master the toxic reaction and allergic reaction of local anesthetics

Be familiar with the types of local anesthesia

Understand the types of peripheral nerve blocks

第四章 椎管内麻醉

掌握椎管内麻醉的解剖

熟悉椎管内麻醉的临床应用和并发症

Spinal Anesthesia

Master the anatomy of spinal anesthesia

Be familiar with the clinical application and complications of spinal anesthesia

第五章 全身麻醉

掌握全身麻醉的分类，主要的全身麻醉药物

熟悉全身麻醉的实施和并发症及处理

General Anesthesia

Master the classification of general anesthesia, the main general anesthetic drugs

Be familiar with the implementation, complications and treatment of general anesthesia

第六章 气道管理

掌握影响气道通畅的原因

熟悉声门上气道和声门下气道

了解困难气道的处理

Airway Management

Master the reasons affecting airway patency

Be familiar with supraglottic and subglottic airways

Understand the management of difficult airways

第七章 围术期体温管理

掌握围术期体温异常对机体的影响，围术期体温保护措施

熟悉体温的生理调节，围术期影响体温的因素

了解围术期体温监测

Management of Body Temperature

Master the effect of abnormal body temperature on the body and measure of protecting the body temperature

Be familiar with the physiological regulation of body temperature and the factors affecting body temperature

Understand body temperature monitoring in perioperative period

第八章 呼吸功能的监测和临床应用

掌握通气功能的监测，氧合功能的监测

熟悉呼吸功能的一般监测，小气道功能的监测，呼吸力学监测

了解超声在肺功能监测中的应用

Monitoring and Clinical Application of Respiratory Function

Master the monitoring of ventilation function and oxygenation function

Be familiar with general monitoring of respiratory function, monitoring of small airway function, respiratory mechanics monitoring

Understand the application of ultrasound in pulmonary function monitoring

第九章 血流动力学监测

掌握血流动力学监测指标和临床应用，心电图监测

了解超声技术在血流动力学监测中的应用

Hemodynamic Monitoring

Master hemodynamic monitoring indicators and clinical application, ECG monitoring

Understand the application of ultrasound technology in hemodynamic monitoring

第十章 围术期液体平衡的监测

掌握围术期水、电解质平衡的监测

熟悉围术期体液渗透浓度平衡的监测，围术期酸碱平衡的监测

Monitoring of Fluid Balance

Master the monitoring of water and electrolyte balance during the peri-operation period

Be familiar with monitoring of osmotic concentration balance of body fluid, monitoring of acid-base balance

第十一章 围术期的液体治疗

掌握液体治疗原则

熟悉围术期有效循环血容量的评估，常用输液制剂

Fluid Therapy

Master the principles of fluid therapy

Be familiar with the assessment of effective circulating blood volume, commonly used infusion agents

第十二章 围术期血液管理

掌握减少围术期失血的措施

熟悉围术期红细胞输注，围术期凝血功能的管理

了解围术期自体输血

Blood Management

Master measures to reduce blood loss

Be familiar with red blood cell transfusion and management of coagulation function

Understand autologous blood transfusion

第十三章 围术期血流动力学调控与控制性降压

掌握围术期血流动力学调控

了解控制性降压

Hemodynamic Regulation and Controlled Hypotension

Master hemodynamic regulation

Understand controlled hypotension

第十四章 日间手术麻醉与手术室外麻醉

熟悉日间手术麻醉和手术室外麻醉

了解快通道麻醉

Day Surgery Anesthesia and Outside Operating Room Anesthesia

Be familiar with day surgery anesthesia and anesthesia outside the operating room

Understand fast-track anesthesia

第十五章 麻醉后恢复室

掌握工作常规和离室标准

熟悉 PACU 常见并发症

Postanesthesia Recovery Room

Master work routines and departure standards

Be familiar with common PACU complications

第十六章 重症监测治疗

熟悉重症监测治疗病房，临床常用监测项目

Critical Care Monitoring and Treatment

Be familiar with intensive care unit, common clinical monitoring items

章节 Section	教学内容 Teaching Contents	总学时 Lecture Hours	教学方法 Teaching Methods	
			讲授 Lecture	实验 Lab
1	绪论Introduction	2	1	1
2	病人术前病情评估与准备 Preoperative evaluation and preparation of patients	2	1	1
3	局部麻醉Local Anesthesia	2	1	1
4	椎管内麻醉Spinal Anesthesia	2	1	1
5	全身麻醉General Anesthesia	2	1	1
6	气道管理Airway Management	2	1	1
7	围术期体温管理 Management of Body Temperature	2	1	1
8	呼吸功能的监测和临床应用 Monitoring and Clinical Application of Respiratory Function	2	1	1
9	血流动力学监测 Hemodynamic Monitoring	2	1	1
10	围术期液体平衡的监测 Monitoring of Fluid Balance	2	1	1
11	围术期的液体治疗 Fluid Therapy	2	1	1
12	围术期血液管理 Blood Management	2	1	1
13	围术期血流动力学调控与控制性降压 Hemodynamic Regulation and Controlled Hypotension	2	1	1
14	日间手术麻醉与手术室外麻醉 Day Surgery Anesthesia and Outside Operating Room Anesthesia	2	1	1
15	麻醉后恢复室 Postanesthesia Recovery Room	2	1	1
16	重症监测治疗 Critical Care Monitoring and Treatment	2	1	1

教材及其它参考资料 Textbook and Supplementary Readings

1. 教材 **Textbook:** 《麻醉学》李文艺, 姚尚龙, 人民卫生出版社, 第四版, 2018

课程评估 **ASSESSMENT**

19. 评估形式 Type of Assessment	评估时间 Time	占考试总成绩百分比 % of final score	违纪处罚 Penalty	备注 Notes
出勤 Attendance		10		
课堂表现 Class Performance				
小测验 Quiz				
课程项目 Projects				
平时作业 Assignments		30		
期中考试 Mid-Term Test				
期末考试 Final Exam		60		
期末报告 Final Presentation				
其它 (可根据需要 改写以上评估方式) Others (The above may be modified as necessary)				

20. 记分方式 **GRADING SYSTEM**

- A. 十三级等级制 **Letter Grading**
 B. 二级记分制 (通过/不通过) **Pass/Fail Grading**

课程审批 **REVIEW AND APPROVAL**

21. 本课程设置已经过以下责任人/委员会审议通过
This Course has been approved by the following person or committee of authority

本课程已经医学院教学副院长张文勇教授审核通过。