

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	外科学（一） Surgery I
2.	授课院系 Originating Department	医学院 School of Medicine
3.	课程编号 Course Code	MED407
4.	课程学分 Credit Value	3
5.	课程类别 Course Type	专业核心课/ Major Core Courses
6.	授课学期 Semester	秋季/ Fall
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)	庄永青，南方科技大学附属第一医院， Zhuangyq@sina.com Yongqing Zhuang, 1st Affiliated Hospital of SUSTech, Zhuangyq@sina.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	32		32		64
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

外科学（一）是各论教学。学生在掌握外科学基础理论和手术学基本概念和外科基本技术操作的基础上，学习和掌握普通外科、胸心外科的发病原因、发生发展规律、病理、临床表现、系统检查、诊断要点、鉴别诊断、预防和治疗原则、手术适应证等外科学知识。

Surgery I is the teaching of various theories. On the basis of mastering the basic theory of surgery, the basic concept of surgery and the basic technical operation of surgery, students learn and master the etiology, occurrence and development law, pathology, clinical manifestations, systematic examination, diagnostic points, differential diagnosis, prevention and treatment principles, surgical indications and other external scientific knowledge of general surgery and cardiothoracic surgery.

16. 预达学习成果 Learning Outcomes

外科学各论的教学过程，包括课堂讲授、自学、见习和实习。讲授内容将理论联系实际，以常见病、多发病、地方病为重点，贯彻预防为主方针，适当介绍国内外医学新成就，要重视基础和临床的结合。对要“掌握”的内容，学生应深入领会其基本知识或基本理论，以便运用于临床实践。对要“熟悉”的内容，学生应在全面理解其内容的基础上抓住重点。对“了解”的内容，学生对此有一般的认识。

The teaching process of various theories of surgery, including classroom teaching, self-study, probation, and internship. The lecture content combines theory with practice, focuses on common diseases, frequently-occurring diseases and endemic diseases, implements the policy of prevention first, appropriately introduces new medical achievements at home and abroad, and attaches importance to the combination of basic and clinical practice. For the content of "mastering", students should deeply understand their basic knowledge or basic theory in order to be applied in clinical practice. For "familiar" content, students should grasp the focus on the basis of a comprehensive understanding of its content. Students have a general understanding of the content of "understanding".

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 颈部疾病

1. 掌握如何检查颈部肿块并作出诊断。

2. 掌握甲状腺功能亢进的外科治疗原则。
3. 熟悉颈部淋巴结核的处理原则。
4. 熟悉甲状腺结节的诊断和处理原则。
5. 了解颈部不同部位肿块的性质。

Chapter I Neck Diseases

1. Master how to examine the neck mass and make a diagnosis.
2. Master the principles of surgical treatment of hyperthyroidism.
3. Be familiar with the management principles of cervical tuberculous lymphadenitis.
4. Be familiar with the diagnosis and management principles of thyroid nodules.
5. Understand the nature of the mass in different parts of the neck.

第二章 乳房疾病

1. 掌握乳房的正确检查方法。
2. 掌握乳房肿块的鉴别诊断要点。
3. 熟悉急性乳房炎的诊断、预防和治疗。
4. 熟悉乳癌的临床表现、诊断和外科治疗原则。
5. 了解乳房的淋巴引流途径。

Chapter II Breast Diseases

1. Master the correct examination method of the breast.
2. Master the key points of differential diagnosis of breast lumps.
3. Be familiar with the diagnosis, prevention and treatment of acute mastitis.
4. Be familiar with the clinical manifestations, diagnosis and surgical treatment principles of breast cancer.
5. Understand the lymphatic drainage pathways of the breast.

第三章 腹外疝

1. 掌握腹股沟斜疝与直疝的鉴别要点。
2. 掌握腹股沟疝手术修补原则。
3. 熟悉腹股沟区的解剖，包括腹股沟管、直疝三角和股管等部位。
4. 了解腹外疝的概念、病因、病理和类型。
5. 了解股疝的概念、鉴别诊断及手术修补原则。
6. 了解嵌顿性疝和绞窄性疝的鉴别诊断和手术处理原则。

Chapter III Abdominal External Hernia

1. Master the key points of differentiating indirect inguinal hernia from direct hernia.
2. Master the principle of surgical repair of inguinal hernia.
3. Be familiar with the anatomy of the inguinal region, including the inguinal canal, direct hernia triangle and femoral canal.
4. Understand the concept, etiology, pathology, and type of abdominal hernia.
5. Understand the concept, differential diagnosis and surgical repair principles of femoral hernia.
6. Understand the differential diagnosis and surgical management principles of inlaid and noxious hernias.

第四章 腹部损伤

1. 掌握腹部损伤的急救、早期诊断和治疗原则。
2. 熟悉外伤性肝、脾、胰和肠破裂的鉴别诊断。
3. 了解腹部闭合性损伤的诊断步骤。

Chapter IV Abdominal Injury

1. Master the principles of first aid, early diagnosis and treatment of abdominal injury.
2. Be familiar with the differential diagnosis of traumatic rupture of liver, spleen, pancreas and intestine.
3. Understand the diagnostic steps of blunt abdominal trauma.

第五章 急性化脓性腹膜炎

1. 掌握急性弥漫性腹膜炎的诊断方法。
2. 熟悉急性弥漫性腹膜炎的病因及临床表现。
3. 熟悉急性弥漫性腹膜炎的病程演变和治疗原则。
4. 了解腹腔脓肿的临床表现和诊断。

Chapter V Acute Suppurative Peritonitis

1. Master the diagnostic methods of acute diffuse peritonitis.
2. Be familiar with the etiology and clinical manifestations of acute diffuse peritonitis.
3. Be familiar with the evolution and treatment principles of acute diffuse peritonitis.
4. Understand the clinical presentation and diagnosis of abdominal abscess.

第六章 胃十二指肠疾病

1. 掌握胃溃疡和十二指肠溃疡的手术适应证、手术方法及手术并发症。
2. 熟悉胃溃疡和十二指肠溃疡的临床表现特点。
3. 熟悉胃、十二指肠溃疡急性穿孔、急性大出血、瘢痕性幽门梗阻的临床表现、诊断和治疗原则。
4. 熟悉胃癌的临床表现、诊断和治疗原则。
5. 了解胃溃疡和十二指肠溃疡的发病机理。

Chapter VI Gastroduodenal Diseases

1. Master the surgical indications, surgical methods and surgical complications of gastric ulcer and duodenal ulcer.
2. Be familiar with the clinical features of gastric ulcer and duodenal ulcer.
3. Be familiar with the clinical manifestations, diagnosis and treatment principles of acute perforation of gastric and duodenal ulcer, acute massive hemorrhage and cicatricial pyloric obstruction.
4. Be familiar with the clinical manifestations, diagnosis and treatment principles of gastric cancer.
5. Understand the pathogenesis of gastric ulcer and duodenal ulcer.

第七章 小肠疾病

1. 掌握肠梗阻的病因、分类、病理和病理生理。
2. 熟悉肠梗阻的临床表现、诊断和治疗原则。
3. 熟悉结肠癌的临床表现、诊断和治疗。
4. 了解肠道炎性疾病的外科治疗。
5. 了解小肠肿瘤、肠息肉及肠息肉病的诊断和治疗。

Chapter VII Small Intestinal Diseases

1. Master the etiology, classification, pathology and pathophysiology of intestinal obstruction.
2. Be familiar with the clinical manifestations, diagnosis and treatment principles of intestinal obstruction.
3. Be familiar with the clinical manifestations, diagnosis and treatment of colon cancer.
4. Understand the surgical treatment of intestinal inflammatory diseases.
5. Understand the diagnosis and treatment of small intestinal tumors, intestinal polyps and intestinal polyposis.

第八章 阑尾疾病

1. 掌握急性阑尾炎的诊断、鉴别诊断和治疗。
2. 熟悉特殊类型急性阑尾炎的临床特点和处理原则。

3. 了解急性阑尾炎的病理和临床分类。

Chapter VIII Appendiceal Diseases

1. Master the diagnosis, differential diagnosis and treatment of acute appendicitis.
2. Be familiar with the clinical features and management principles of special types of acute appendicitis.
3. Understand the pathological and clinical classification of acute appendicitis.

第九章 结、直肠与肛管疾病

1. 掌握肛裂、直肠肛管周围脓肿、肛痿、痔、直肠脱垂、直肠息肉的诊断和治疗。
2. 熟悉直肠癌的临床表现、诊断、治疗和手术原则。
3. 了解直肠、肛管的解剖和检查方法。

Chapter IX Colorectal and Anal Canal Diseases

1. Master the diagnosis and treatment of anal fissure, perianorectal abscess, anal fistula, hemorrhoids, rectal prolapse, rectal polyps.
2. Be familiar with the clinical manifestations, diagnosis, treatment and surgical principles of rectal cancer.
3. Understand the anatomy and examination methods of rectum and anal canal.

第十章 肝疾病

1. 掌握原发性肝癌的诊断、鉴别诊断和治疗。
2. 熟悉肝脓肿的病因、诊断、鉴别诊断和治疗。
3. 了解肝包虫病的病因、病理、诊断和治疗。

Chapter X Liver Diseases

1. Master the diagnosis, differential diagnosis and treatment of primary liver cancer.
2. Be familiar with the etiology, diagnosis, differential diagnosis and treatment of liver abscess.
3. Understand the etiology, pathology, diagnosis and treatment of hepatic echinococcosis.

第十一章 门静脉高压症

1. 掌握门静脉高压症的诊断和治疗原则。
2. 熟悉门静脉高压症的病因、病理和临床表现。
3. 了解布一加氏综合征的诊断和治疗原则。

Chapter XI Portal Hypertension

1. Master the diagnosis and treatment principles of portal hypertension.
2. Be familiar with the etiology, pathology and clinical manifestations of portal hypertension.
3. Understand the principles of diagnosis and treatment of Budd-Chiari syndrome.

第十二章 胆道疾病

1. 掌握急性胆囊炎、胆囊结石、肝内外胆管结石、急性梗阻性化脓性胆管炎的临床表现、诊断、鉴别诊断和治疗原则。
2. 熟悉胆道蛔虫病的诊断和处理。
3. 熟悉胆石症和胆囊炎、胆管炎的病因、病理。
4. 了解慢性胆囊炎的临床表现、诊断和治疗原则。

Chapter XII Biliary Tract Diseases

1. Master the clinical manifestations, diagnosis, differential diagnosis and treatment principles of acute cholecystitis, gallstones, intrahepatic and extrahepatic bile duct stones and acute obstructive suppurative cholangitis.
2. Be familiar with the diagnosis and treatment of biliary ascariasis.
3. Be familiar with the etiology and pathology of cholelithiasis, cholecystitis and cholangitis.
4. Understand the clinical manifestations, diagnosis and treatment principles of chronic cholecystitis.

第十三章 上消化道大出血的鉴别诊断和处理原则

1. 掌握上消化道大出血的常见病因。
2. 熟悉不同部位大出血的不同特点。
3. 了解手术探查的指征和步骤。

Chapter XIII Differential Diagnosis and Treatment Principles of Upper Gastrointestinal Hemorrhage

1. Master the common causes of massive hemorrhage of upper gastrointestinal tract.
2. Be familiar with the different characteristics of massive hemorrhage at different sites.
3. Understand the steps and procedures of surgical exploration.

第十四章 急腹症的鉴别诊断

1. 掌握各类急腹症的临床表现和治疗原则。
2. 熟悉各种急腹症的鉴别诊断。
3. 了解不同病因所引起急腹症的临床特点。

Chapter XIV Differential Diagnosis of Acute Abdomen

1. Master the clinical manifestations and treatment principles of various types of acute abdomen.
2. Be familiar with the differential diagnosis of various acute abdominal diseases.
3. Understand the clinical characteristics of acute abdomen caused by different etiologies.

第十五章 胰腺疾病

1. 掌握急性胰腺炎的病理、临床表现、诊断和治疗。
2. 掌握壶腹周围癌的临床表现和诊断。
3. 了解慢性胰腺炎、假性胰腺囊肿的病理、临床表现、诊断和治疗。
4. 了解胰岛素的临床表现和诊断。

Chapter XV Pancreatic Diseases

1. Master the pathology, clinical manifestations, diagnosis and treatment of acute pancreatitis.
2. Master the clinical manifestations and diagnosis of periampullary carcinoma.
3. Understand the pathology, clinical manifestations, diagnosis and treatment of chronic pancreatitis and pseudopancreatic cyst.
4. Understand the clinical presentation and diagnosis of insulinoma.

第十六章 脾疾病

掌握脾切除的适应证（外伤性脾破裂除外）。

Chapter XVI Spleen Diseases

Master the indications for splenectomy (except traumatic splenic rupture).

第十七章 周围血管和淋巴管疾病

1. 掌握下肢静脉曲张的临床表现、诊断和治疗。
2. 掌握诊断下肢静脉曲张的各种检查方法。
3. 熟悉血栓闭塞性脉管炎的临床表现、诊断和治疗。
4. 了解急性下肢深静脉血栓形成的诊断和治疗原则。
5. 了解急性动脉栓塞的诊断和治疗原则。
6. 了解动脉瘤和损伤性动静脉瘘的临床表现和治疗原则。
7. 了解下肢象皮肿的诊断要点和治疗原则。

Chapter XVII Peripheral Vascular and Lymphatic Diseases

1. Master the clinical manifestations, diagnosis and treatment of varicose veins of the lower extremities.

2. Master various examination methods for the diagnosis of varicose veins of the lower extremities.
3. Be familiar with the clinical manifestations, diagnosis and treatment of thromboangiitis obliterans.
4. Understand the diagnosis and treatment principles of acute lower extremity deep venous thrombosis.
5. Understand the diagnosis and treatment principles of acute arterial embolism.
6. Understand the clinical manifestations and treatment principles of aneurysms and injured arteriovenous fistulas.
7. Understand the main points of diagnosis and treatment of lower limb elephantiasis.

第十八章 胸部损伤

1. 掌握胸部损伤的分类、病理生理及急救处理原则。
2. 掌握肋骨骨折、气胸、血胸的临床表现、诊断、急救和治疗。
3. 熟悉胸腔闭式引流术的指征及方法。
4. 了解创伤性窒息、肺爆震伤、心脏损伤的临床表现及治疗原则。

Chapter XVIII Chest Injury

1. Master the classification, pathophysiology and emergency treatment principles of chest injury.
2. Master the clinical manifestations, diagnosis, first aid and treatment of rib fracture, pneumothorax and hemothorax.
3. Be familiar with the methods and methods of closed thoracic drainage.
4. Understand the clinical manifestations and treatment principles of traumatic asphyxia, lung blast injury and heart injury.

第十九章 胸壁胸膜疾病

1. 掌握脓胸的临床表现、诊断和治疗原则。
2. 熟悉脓胸的病因和病理。
3. 了解非特异性肋软骨炎、胸壁结核、胸壁肿瘤、先天性胸壁畸形的临床表现、诊断和治疗。

Chapter XIX Chest Wall Pleural Diseases

1. Master the clinical manifestations, diagnosis and treatment principles of empyema.
2. Be familiar with the etiology and pathology of empyema.
3. Understand the clinical manifestations, diagnosis and treatment of non-specific costal chondritis, chest wall tuberculosis, chest wall tumors, and congenital chest wall malformations.

第二十章 肺部疾病

1. 掌握肺癌的临床表现、诊断、鉴别诊断和治疗。
2. 熟悉肺癌的病因、病理。
3. 了解支气管扩张、肺结核的外科治疗适应证和手术基本原则。
4. 了解肺包虫病及肺部良性肿瘤的临床表现及治疗原则。

Chapter XX Pulmonary Diseases

1. Master the clinical manifestations, diagnosis, differential diagnosis and treatment of lung cancer.
2. Be familiar with the etiology and pathology of lung cancer.
3. Understand the indications and basic principles of surgical treatment of bronchiectasis and pulmonary tuberculosis.
4. Understand the clinical manifestations and treatment principles of pulmonary echinococcosis and benign pulmonary tumors.

第二十一章 食管疾病

1. 掌握食道癌的临床表现、诊断、鉴别诊断和治疗原则。
2. 熟悉食道癌的病因、病理和预防。
3. 了解食管良性肿瘤、腐蚀性食道灼伤、贲门失弛缓症、食道憩室的临床表现、诊断和治疗原则。

Chapter XXI Esophageal Diseases

1. Master the clinical manifestations, diagnosis, differential diagnosis and treatment principles of esophageal cancer.

2. Be familiar with the etiology, pathology and prevention of esophageal cancer.
3. Understand the clinical manifestations, diagnosis and treatment principles of benign esophageal tumors, corrosive esophageal burns, achalasia, and esophageal room.

第二十二章 原发性纵隔肿瘤

1. 熟悉纵隔不同部位常见肿瘤的临床特征。
2. 了解纵隔解剖及常见肿瘤的好发部位和病理。

Chapter XXI I Primary Mediastinal Tumors

1. Be familiar with the clinical features of common tumors in different parts of the mediastinum.
2. Understand mediastinal anatomy and the predilection sites and pathology of common tumors.

第二十三章 心脏疾病

1. 掌握心脏外科发展概况及常见先天性心脏病的外科治疗原则。
2. 熟悉心内手术基础措施及常见后天性心脏病的外科治疗原则。

Chapter XXI II Heart Diseases

1. Master the development of cardiac surgery and the principles of surgical treatment of common congenital heart diseases.
2. Be familiar with the basic measures of intracardiac surgery and the principles of surgical treatment of common acquired heart disease.

第二十四章 胸主动脉瘤

了解胸主动脉瘤的病理、临床表现、诊断和治疗。

Chapter XXI V Thoracic Aortic Aneurysms

Understand the pathology, clinical presentation, diagnosis and treatment of thoracic aortic aneurysms.

Section	Teaching Contents	Hours
1	颈部疾病Neck diseases	2
2	乳房疾病Breast diseases	2
3	结肠良、恶性疾病Benign and malignant diseases of colon	2
4	小肠疾病Intestinal diseases	2
5	胃十二指肠疾病Gastroduodenal diseases	1
6	腹部损伤Abdominal injury	2
7	急性化脓性腹膜炎Acute suppurative peritonitis	1
8	阑尾疾病Appendiceal diseases	1
9	直肠和肛管恶性疾病Malignant diseases of rectum and anal canal	1
10	直肠和肛管良性疾病Benign diseases of rectum and anal canal	1
11	腹外疝External abdominal hernia	1
12	急腹症Acute abdomen	1
13	脾疾病spleen disease	1

14	胆道疾病Biliary diseases	1
15	肝疾病Liver diseases	1
16	消化道大出血的鉴别诊断和处理原则Differential diagnosis and management of massive hemorrhage of digestive tract	2
17	胰腺疾病Pancreatic diseases	1
18	先天性心脏病Congenital heart disease	1
19	后天性心脏病、胸主动脉疾病Acquired heart disease, thoracic aortic disease	1
20	胸部损伤Chest injury	2
21	食管疾病Esophageal diseases	1
22	肺部疾病Pulmonary diseases	1
23	原发性纵隔肿瘤Primary mediastinal tumors	1
24	血管疾病Vascular diseases	2
Surgical trainee 实践部分		
1	颈部疾病 乳房疾病Neck diseases, Breast diseases	4
2	腹外疝External abdominal hernia	2
3	急腹症Acute abdomen	4
4	食管疾病Esophageal diseases	2
5	消化性溃疡的外科治疗Surgical treatment of peptic ulcer	4
6	小肠、大肠疾病 阑尾炎Small and large intestine diseases, Appendicitis	4
7	直肠、肛管疾病Rectal and anal canal diseases	4
8	肝脏疾病 胆道疾病 胰腺疾病Liver diseases, Biliary tract disorder, Pancreatic disorder	4
9	心脏、肺部疾病 Cardiac, Pulmonary disorder	4

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

教材:

陈孝平等主编, 外科学, 第九版, 人民卫生出版社, 2018年9月

课程评估 ASSESSMENT

19. 评估形式	评估时间 Time	占考试总成绩百分比	违纪处罚 Penalty	备注 Notes
----------	--------------	-----------	-----------------	-------------

Type of Assessment	% of final score		
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。