

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	儿科学 Pediatrics
2.	授课院系 Originating Department	医学院 School of Medicine
3.	课程编号 Course Code	MED409
4.	课程学分 Credit Value	4.5
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)	李博，南方科技大学附属第一医院，13352995656@163.com Bo Li, 1st Affiliated Hospital of SUSTech, 13352995656@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	48		48		96
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

《儿科学》课程是临床医学专业四年级学生的专业核心课。本课程通过对儿科学基础与专业知识的学习，旨在让临床医学专业学生初步掌握儿科学的基础及常见疾病，掌握儿科学临床实践的基本必备技能，为今后儿科学学习及实践奠定基础。

This course is a major core course for fourth-year students majoring in clinical medicine. Through the study of pediatrics foundation and professional knowledge, this course aims to allow clinical medical students to preliminarily master the basis and common diseases of pediatrics and master the basic essential skills of pediatrics clinical practice, laying the foundation for pediatric learning and practice in the future.

16. 预达学习成果 Learning Outcomes

1. 了解儿科学的基本理论、基本原则和基本方法；
2. 提高学生对儿科学的常见疾病的认识及处理。

1. Understand the basic theories, principles and methods of pediatrics;
2. Improve students' ability of pediatrics diseases.

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

- 1、熟悉儿科学的特点。
- 2、了解我国儿科工作的成就。
- 3、掌握小儿年龄分期及各年龄期特点。

Chapter I Introduction

1. Be familiar with the characteristics of pediatrics.
2. Understand the achievements of pediatric work in China.
3. Master the age stage of children and the characteristics of each age stage.

第二章 生长发育

- 1、了解小儿生长发育的规律。
- 2、了解影响小儿生长发育的因素。
- 3、掌握小儿生长发育的各项指标（包括测量方法、正常值、计算方法等）及其异常时的临床意义。

Chapter II Growth and Development

1. Understand the law of growth and development in children.
2. Understand the factors affecting the growth and development of children.
3. Master various indicators of growth and development of children (including measurement methods, normal values, calculation methods, etc.) and their clinical significance when abnormal.

第三章 营养和营养障碍疾病

（一）小儿营养基础，婴儿喂养方法

- 1、熟悉小儿营养物质代谢特点和需要量。
- 2、掌握母乳喂养的优点及方法。
- 3、掌握人工喂养乳量计算方法。
- 4、掌握辅食添加方法及原则。

（二）营养性维生素 D 缺乏性佝偻病

- 1、掌握维生素 D 缺乏性佝偻病的病因。
- 2、了解维生素 D 的来源，在体内的转化过程及其主要生理功能。
- 3、掌握本病的发病机理，病理及临床表现。

- 4、了解本病的鉴别诊断。
- 5、掌握本病的治疗和预防。

(三) 营养性维生素 D 缺乏性手足搐搦症

- 1、熟悉本病的病因和发病机理。
- 2、掌握本病的临床表现。
- 3、掌握本病的诊断与鉴别诊断。
- 4、掌握本病的防治方法。

(四) 蛋白质—能量营养不良

- 1、熟悉营养不良的病因。
- 2、掌握营养不良的病理生理与临床表现的联系。
- 3、了解营养不良的并发症。
- 4、掌握本病的诊断、治疗、预防方法。

Chapter III Nutrition and Nutritional Disorders

(I) Pediatric nutrition basis and infant feeding methods

1. Be familiar with the metabolic characteristics and requirements of nutrients in children.
2. Master the advantages and methods of breastfeeding.
3. Master the calculation method of artificial feeding milk volume.
4. Master the methods and principles of supplementary food addition.

(II) Nutritional vitamin D deficiency rickets

1. Master the etiology of vitamin D deficiency rickets.
2. Understand the source of vitamin D, the transformation process in the body and its main physiological functions.
3. Master the pathogenesis, pathology and clinical manifestations of this disease.
4. Understand the differential diagnosis of this disease.
5. Master the treatment and prevention of this disease.

(III) Nutritional vitamin D deficiency tetany

1. Be familiar with the etiology and pathogenesis of this disease.
2. Master the clinical manifestations of this disease.

3. Master the diagnosis and differential diagnosis of this disease.

4. Master the prevention and treatment of this disease.

(IV) Protein-energy malnutrition

1. Be familiar with the etiology of malnutrition.

2. Master the relationship between the pathophysiology of malnutrition and clinical manifestations.

3. Understand the complications of malnutrition.

4. Master the diagnosis, treatment and prevention of this disease.

第四章 新生儿与新生儿疾病

(一) 概述

1、了解围产医学的定义及影响胎儿生长发育的因素。

2、掌握新生儿分类及定义。

3、掌握各系统新生儿解剖生理特点和护理。

4、了解新生儿的几种特殊状态。

(二) 新生儿窒息，新生儿缺血缺氧性脑病，新生儿呼吸窘迫综合征

1、了解新生儿呼吸障碍的各种病因。

2、了解特发性呼吸窘迫综合征发病机理。

3、掌握新生儿窒息及其常见并发症的临床特点和鉴别要点。

4、熟悉新生儿呼吸障碍的一般处理原则和人工呼吸机应用指征。

(三) 新生儿黄疸

1、熟悉新生儿胆红素代谢的特点。

2、了解发生核黄疸的有关因素和防治方法。

3、掌握生理性黄疸与病理性黄疸的鉴别。

4、掌握病理性黄疸的几种疾病的病因和特点。

(四) 新生儿败血症，新生儿寒冷损伤综合征（新生儿硬肿症）

1、掌握败血症、硬肿症的发病机理和临床表现。

2、熟悉药物及其它治疗原则。

3、熟悉预防措施（保温、复温、消毒隔离）。

Chapter IV Neonatal and Neonatal Diseases

(I) Overview

1. Understand the definition of perinatal medicine and the factors affecting fetal growth and development.
2. Master the classification and definition of newborns.
3. Master the anatomical and physiological characteristics and nursing care of newborns in various systems.
4. Understand several special states of newborns

(II) Neonatal asphyxia, neonatal hypoxic-ischemic encephalopathy, neonatal respiratory distress syndrome

1. Understand the various etiologies of neonatal respiratory disorders.
2. Understand the pathogenesis of idiopathic inspiratory distress syndrome.
3. Master the clinical characteristics and differential points of neonatal asphyxia and its common complications.
4. Be familiar with the general treatment principles of neonatal respiratory disorders and the application of artificial respirator.

(III) Neonatal jaundice

1. Be familiar with the characteristics of neonatal bilirubin metabolism.
2. Understand the related factors and prevention and treatment of kernicterus.
3. Master the differentiation between physiological jaundice and pathological jaundice.
4. Master the etiology and characteristics of several diseases of pathological jaundice.

(IV) Neonatal sepsis, neonatal cold injury syndrome (neonatal scleredema)

1. Master the pathogenesis and clinical manifestations of sepsis and scleredema.
2. Be familiar with drugs and other therapeutic principles.
3. Be familiar with preventive measures (heat preservation, rewarming, disinfection and isolation).

第五章 遗传代谢性疾病

- 1、掌握遗传代谢性疾病的基本概念。
- 2、熟悉遗传代谢性疾病的分类。
- 3、了解遗传代谢性疾病的发病机制。

Chapter V Inherited Metabolic Diseases

1. Master the basic concepts of inherited metabolic diseases.
2. Be familiar with the classification of inherited metabolic diseases.

3. Understand the pathogenesis of inherited metabolic diseases.

第六章 免疫性疾病：支气管哮喘

- 1、熟悉小儿哮喘的发病机理。
- 2、掌握小儿哮喘的诊断、临床分度分期及缓解期治疗原则。
- 3、掌握急性哮喘发作的严重度评估及哮喘危重状态的处理。
- 4、熟悉哮喘的常用药物。
- 5、熟悉吸入疗法的常见方法及其适应症。

Chapter VI Immune Diseases: Bronchial Asthma

1. Be familiar with the pathogenesis of asthma in children.
2. Master the diagnosis, clinical grading and staging and remission treatment principles of asthma in children.
3. Master the severity assessment of acute asthma attacks and the management of critical status of asthma.
4. Be familiar with the commonly used drugs for asthma.
5. Be familiar with the common methods of inhalation therapy and its indications.

第七章 感染性疾病

(一) 病毒感染：麻疹

- 1、掌握麻疹的早期诊断要点及典型的临床表现。
- 2、熟悉其它类型麻疹的临床表现。
- 3、掌握麻疹与其它常见出疹性疾病的鉴别要点。
- 4、熟悉麻疹的常见并发症。
- 5、掌握麻疹的防治原则及方法。

(二) 结核病

- 1、了解结核病病因、变态反应和免疫。
- 2、掌握 OT 试验方法，结果判断标准及其临床意义。
- 3、熟悉小儿结核病的预防措施。

Chapter VII Infectious Diseases

(I) Viral infection: measles

1. Master the key points of early diagnosis and typical clinical manifestations of measles.
2. Be familiar with the clinical manifestations of other types of measles.
3. Master the key points of differentiating measles from other common exanthematous diseases.
4. Be familiar with the common complications of measles.
5. Master the prevention and control principles and methods of measles.

(II) Tuberculosis

1. Understand tuberculosis etiology, allergy and immunity.
2. Master OT test methods, result judgment criteria and their clinical significance.
3. Be familiar with the preventive measures of pediatric tuberculosis.

第八章 消化系统疾病

(一) 小儿腹泻

- 1、掌握本病病因，病理生理与临床表现的关系。
- 2、掌握本病的诊断与治疗。
- 3、熟悉本病的鉴别诊断。
- 4、了解本病的预防

(二) 小儿液体疗法

- 1、熟悉小儿液体平衡的特点。
- 2、熟悉小儿水电解质平衡失调的病理生理。
- 3、掌握小儿液体疗法的计算原则。
- 4、熟悉液体疗法常用溶液的组成及应用方法。
- 5、掌握婴幼儿腹泻的液体疗法。

Chapter VIII Digestive System Diseases

(I) Diarrhea in children

1. Master the relationship between the etiology, pathophysiology and clinical manifestations of this disease.
2. Master the diagnosis and treatment of this disease.
3. Be familiar with the differential diagnosis of this disease.

4. Understand the prevention of this disease.

(II) Pediatric fluid therapy

1. Be familiar with the characteristics of fluid balance in children.
2. Be familiar with the pathophysiology of water and electrolyte imbalance in children.
3. Master the calculation principles of pediatric fluid therapy.
4. Be familiar with the composition and application methods of solutions commonly used in fluid therapy.
5. Master the fluid therapy for infantile diarrhea.

第九章 呼吸系统疾病

(一) 小儿呼吸系统解剖生理特点

- 1、了解小儿呼吸系统解剖生理特点。
- 2、了解小儿常见呼吸系统疾病特点。

(二) 急性上呼吸道感染，急性感染性喉炎，急性支气管炎

- 1、掌握上感及支气管炎的临床表现、诊断要点、鉴别诊断及治疗原则。
- 2、熟悉上感及支气管炎的病因及诱因。

(三) 支气管肺炎和几种不同病原体所致肺炎的特点

- 1、熟悉肺炎的分类。
- 2、掌握支气管肺炎的病因、临床表现、并发症、常用病原学检查方法、诊断、鉴别诊断及治疗措施。
- 3、熟悉本病的病理生理、X线表现以及几种常见病原体所致肺炎的特点。

Chapter IX Respiratory Diseases

(I) Anatomical and physiological characteristics of respiratory system in children

1. Understand the anatomical and physiological characteristics of the respiratory system in children.
2. Understand the characteristics of common respiratory diseases in children.

(II) Acute upper respiratory tract infection, acute infectious laryngitis and acute bronchitis

1. Master the clinical manifestations, diagnostic points, differential diagnosis and treatment principles of bronchitis.
2. Be familiar with the etiology and inducement of bronchitis.

(III) Characteristics of bronchopneumonia and pneumonia caused by several different pathogens

1. Be familiar with the classification of pneumonia.
2. Master the etiology, clinical manifestations, complications, commonly used etiological examination methods, diagnosis, differential diagnosis and treatment measures of bronchopneumonia.
3. Be familiar with the pathophysiology of this disease, X-ray findings, and the characteristics of pneumonia due to several common pathogens.

第十章 心血管系统疾病

(一) 先天性心脏病

- 1、了解胎儿血液循环及生后血液动力学的改变。
- 2、熟悉先天性心脏病发生因素及分类。
- 3、掌握房间隔缺损、室间隔缺损、动脉导管未闭及法洛四联症的解剖缺陷、血液动力学、临床表现、诊断及鉴别诊断。
- 4、熟悉常见并发症的诊断。
- 5、熟悉上述几种常见先天性心脏病的治疗原则。

(二) 病毒性心肌炎

- 1、了解病毒性心肌炎定义、病因及病理改变。
- 2、掌握病毒性心肌炎临床表现、实验室检查及诊断标准。
- 2、熟悉病毒性心肌炎鉴别诊断。
- 4、掌握病毒性心肌炎治疗原则。

Chapter X Cardiovascular System Diseases

(I) Congenital heart disease

1. Understand fetal blood circulation and postnatal hemodynamic changes.
2. Be familiar with the factors and classification of congenital heart disease.
3. Master the anatomical defects, hemodynamics, clinical manifestations, diagnosis and differential diagnosis of atrial septal defect, ventricular septal defect, patent ductus arteriosus and tetralogy of Fallot.
4. Be familiar with the diagnosis of common complications.
5. Be familiar with the treatment principles of the above several common congenital heart diseases.

(II) Viral myocarditis

1. Understand the definition, etiology and pathological changes of viral myocarditis.
2. Master the clinical manifestations, laboratory examination and diagnostic criteria of viral myocarditis.

3. Be familiar with the differential diagnosis of viral myocarditis.

4. Master the treatment principles of viral myocarditis.

第十一章 泌尿系统疾病

(一) 小儿泌尿系统解剖生理特点，小儿肾小球疾病的临床分类

- 1、熟悉小儿泌尿系统生理解剖特点。
- 2、熟悉小儿肾脏疾病主要实验室检查的正常值及临床意义。
- 3、熟悉肾小球疾病的分类。

(二) 急性肾小球肾炎

- 1、掌握急性肾炎的病因及发病机理。
- 2、掌握一般病例与严重病例的临床表现。
- 3、掌握一般病例与严重病例的处理。
- 4、熟悉急性肾炎与慢性肾炎急性发作，其他病原体感染引起肾炎的鉴别诊断。

(三) 肾病综合征

- 1、了解原发性肾病的病因。
- 2、熟悉原发性肾病的病理生理。
- 3、掌握单纯性肾病与肾炎肾病的临床表现与区别。
- 4、熟悉原发性肾病的常见并发症。
- 5、掌握原发性肾病的治疗。

Chapter XI Urinary System Diseases

(I) Anatomical and physiological characteristics of the urinary system in children, clinical classification of glomerular diseases in children

1. Be familiar with the physiological and anatomical characteristics of the pediatric urinary system.
2. Be familiar with the normal values and clinical significance of main laboratory tests for pediatric kidney diseases.
3. Be familiar with the classification of glomerular diseases.

(II) Acute glomerulonephritis

1. Master the etiology and pathogenesis of acute nephritis.
2. Master the clinical manifestations of general cases and severe cases.

3. Master the treatment of general cases and serious cases.

4. Be familiar with the differential diagnosis of acute nephritis and acute attack of chronic nephritis, nephritis caused by infection with other pathogens;

(III) Nephrotic syndrome

1. Understand the etiology of primary nephropathy.

2. Be familiar with the pathophysiology of primary nephropathy.

3. Master the clinical manifestations and differences between simple nephropathy and nephritic nephropathy.

4. Be familiar with the common complications of primary kidney disease.

5. Master the treatment of primary kidney disease.

第十二章 造血系统疾病

1、掌握正常小儿造血和血液特点。

2、了解贫血发生原因。

3、掌握缺铁性贫血及营养性巨幼红细胞性贫血的病因、发病机理、诊断、防治方法。

Chapter XII Hematopoietic Diseases

1. Master the hematopoietic and hematological characteristics of normal children.

2. Understand the causes of anemia.

3. Master the causes of iron deficiency anemia and nutritional megaloblastic anemia, pathogenesis, diagnosis, prevention and treatment.

第十三章 神经肌肉系统疾病：化脓性脑膜炎

1、掌握化脓性脑膜炎的临床表现、实验室检查、诊断和鉴别诊断。

2、掌握化脓性脑膜炎的治疗。

3、熟悉小儿化脓性脑膜炎的病因和发病机理。

Chapter XIII Neuromuscular System Diseases: Purulent Meningitis

1. Master the clinical manifestations, laboratory examination, diagnosis and differential diagnosis of purulent meningitis.

2. Master the treatment of purulent meningitis.

3. Be familiar with the etiology and pathogenesis of purulent meningitis in children.

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; 生长发育 Introduction; Growth and Development	6	3	3
2	营养和营养障碍疾病 Nutrition and Nutritional Disorders	6	3	3
3	新生儿与新生儿疾病 (一) Neonatal and Neonatal Diseases (I)	6	3	3
4	新生儿与新生儿疾病 (二) Neonatal and Neonatal Diseases (II)	6	3	3
5	遗传代谢性疾病 Inherited Metabolic Diseases	6	3	3
6	免疫性疾病: 支气管哮喘 Immune Diseases: Bronchial Asthma	6	3	3
7	感染性疾病 Infectious Diseases	6	3	3
8	消化系统疾病 Digestive System Diseases	6	3	3
9	呼吸系统疾病 Respiratory Diseases	6	3	3
10	心血管系统疾病 (一) Cardiovascular System Diseases (I)	6	3	3
11	心血管系统疾病 (二) Cardiovascular System Diseases (II)	6	3	3
12	泌尿系统疾病 (一) Urinary System Diseases (I)	6	3	3
13	泌尿系统疾病 (二) Urinary System Diseases (II)	6	3	3
14	造血系统疾病 Hematopoietic Diseases	6	3	3
15	神经肌肉系统疾病: 化脓性脑膜炎 Neuromuscular System Diseases: Purulent Meningitis	6	3	3
16	复习 Review	6	3	3

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

教材:

《儿科学》, 人民卫生出版社, 第九版, 王卫平、孙锟、常立文主编。

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。