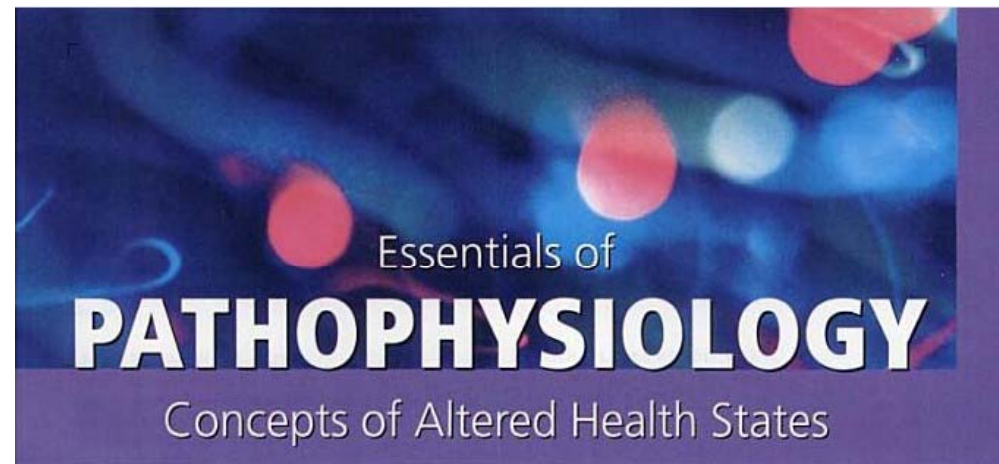
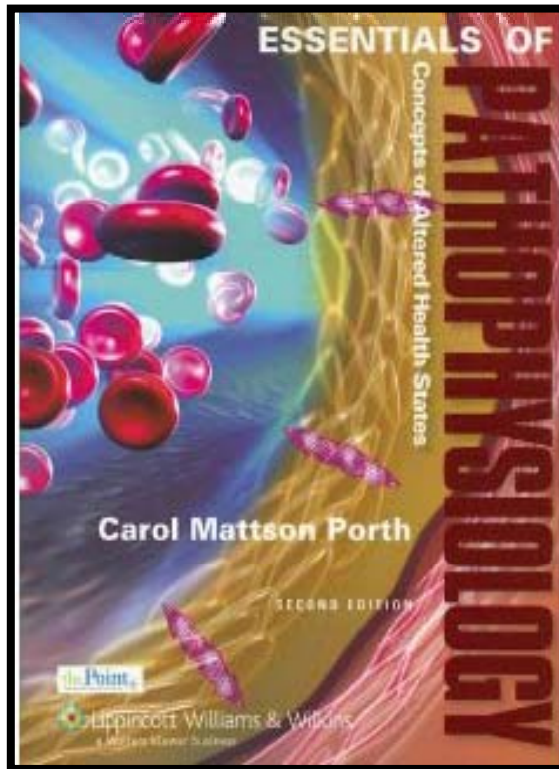


# 《Essentials of Pathophysiology: Concepts of Altered Health States》

## 第2版——介绍和评价



*Second Edition*



## 本书简介

- 书名 Essentials of Pathophysiology: Concepts of Altered Health States
- 主编 Carol Mattson Porth
- 出版社 Lippincott Williams & Wilkins
- 出版时间 2004年(第1版)；2006年(第2版)
- 原版书名 Pathophysiology: Concepts of Altered Health (第七版的基础上改编)
- 适用于医学生、临床医生及护理执业者



## 主编简介

- 威斯康星大学密尔沃基分校护理学院的荣誉教授、美国著名生理学家
- 美国护士协会、美国急救护士协会、美国生理学学会成员
- 已退休，仍坚持教授研究生的病理生理学和药理学，在威斯康辛州密尔沃基的Foredtert医院从事护理研究
- 已出版病理生理学书籍10多本，其中很多是国内外学习病理生理学的经典教材，适合各类学生使用



## 教材的基本构架

- 全书分为13单元，共45章
- 词汇表、常用实验室检查项目正常值、索引
- 附赠CD-ROM、学习指南、网络学习资源  
<http://thePoint.LWW.com/PortHessentials>



## 教材的基本构架

- 第1单元：细胞组织功能
- 第2单元：整体功能
- 第3至13单元：各系统的病理生理学



## 教材的基本构架

- 第1单元：细胞组织功能（5章）
  - 细胞结构功能
  - 细胞对应激、损伤和老化的反应
  - 细胞功能的基因调控和遗传
  - 遗传与先天性疾病
  - 肿瘤



## 教材的基本构架

- 第2单元：整体功能（3章）
  - 体液、电解质和酸碱平衡紊乱
  - 应激与适应
  - 机体营养改变



## 教材的基本构架

- 第3至13单元：系统病理生理学（37章）
  - 造血功能
  - 感染、炎症与免疫系统
  - 循环功能
  - 呼吸功能
  - 肾脏和尿路功能
  - 胃肠和肝胆功能
  - 内分泌系统
  - 神经系统
  - 生殖系统
  - 运动系统
  - 皮肤功能





## 教材的基本构架

- 每个单元结构基本一致
  - 正常解剖、生理、生化等相关知识
  - 常见代表性疾病的病因、发病机制、机体功能代谢变化、流行病学、临床表现、诊断、预防与治疗



## **Unit V Circulatory Function**

### **Chapter 16 Control of Cardiovascular Function**

- Organization of the Circulatory System
- Principles of Blood Flow
- The Heart as a Pump
- Blood Vessels and the Peripheral Circulation
- Autonomic Nervous System Control of Circulatory Function

### **Chapter 17 Disorders of Blood Flow and Blood Pressure**

- Blood Vessel Structure and Function
- Disorders of the Arterial Circulation
- Disorders of Arterial Blood Pressure
- Disorders of the Venous Circulation

### **Chapter 18 Disorders of Cardiac Function**

- Disorders of the Pericardium
- Coronary Heart Disease
- Myocardial and Endocardial Disease
- Valvular Heart Disease
- Heart Disease in Infants and Children

### **Chapter 19 Heart Failure and Circulatory Shock**

- Heart Failure
- Circulatory Failure(Shock)
- Circulatory Failure in Children and the Elderly

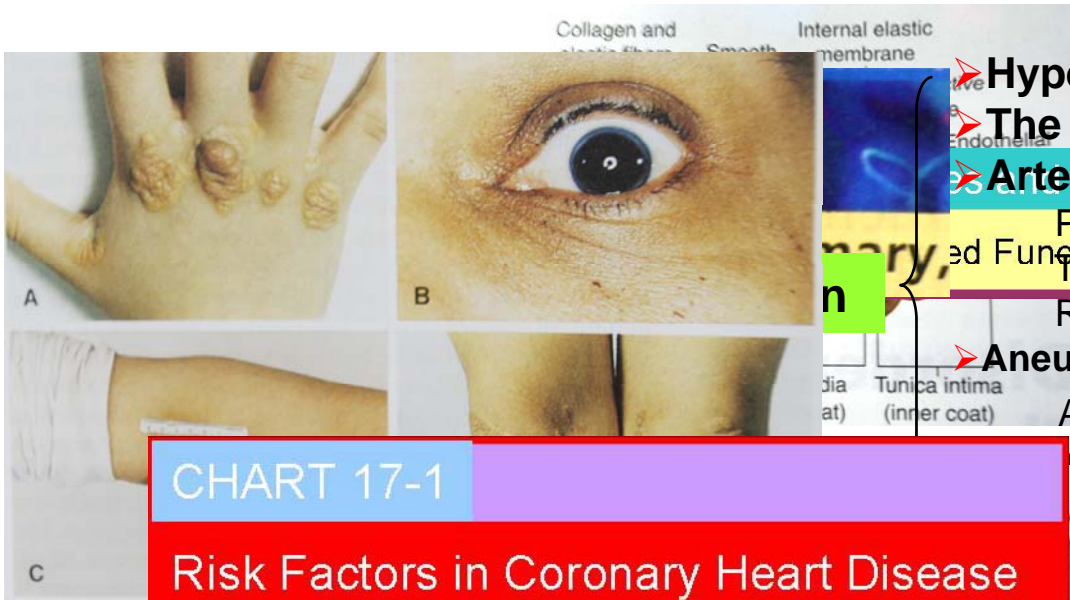


# Chapter 17 Disorders of Blood Flow and Blood Pressure



## Blood Vessel Structure and Function

- Endothelial Cells
- Vascular Smooth Muscle Cells



- Hyperlipidemia and Atherosclerosis
- The Vasculitides
- Arterial Disease of the Extremities
  - Peripheral Arterial Disease
  - Thromboangiitis Obliterans
  - Raynaud Disease and Phenomenon
- Aneurysms and Dissections
  - Abdominal Aortic Aneurysms
  - Aortic Dissection

CHART 17-1  
 Risk Factors in Coronary Heart Disease  
 Other Than Low-Density Lipoproteins



## Chapter 17 Disorders of Blood Flow and Blood Pressure

### ➤ Mechanisms of Blood Pressure Regulation

Short-Term Regulation  
Long-Term Regulation

### Understanding → Determinants of Blood Pressure

The arterial blood pressure, which is the force that moves blood through the arterial system, reflects the intermittent contraction and relaxation

### Disorders of Arterial Blood Pressure

### ➤ Secondary Hypertension

Renal Hypertension  
Disorders of Adrenocorticosteroid Hormones  
Pheochromocytoma  
Coarctation of the Aorta  
Malignant Hypertension

### Hypertension During Pregnancy and Hypertension in Special Populations

Hypertension During Pregnancy  
Hypertension in Children  
Hypertension in the Elderly

### ➤ Orthostatic Hypotension

Causes  
Diagnosis and Treatment





## Chapter 17 Disorders of Blood Flow and Blood Pressure



### Disorders of the Venous Circulation

- Venous Circulation of the Lower Extremities
- Varicose Veins
- Chronic Venous Insufficiency
- Venous Thrombosis

Clinical

### Review Exercises

The Third Report of the NCEP Expert Panel on Detection, Evaluation, and Treatment of High Cholesterol in Adults recommends that a person's HDL should be above 40mg/dl.

- A. Explain the role of HDL in the prevention of atherosclerosis.



## 教材特色

- 内容全面、系统、注重新研究进展
  - 涵盖了从细胞亚结构到整体水平的生理、生化、病理
  - 相关疾病的病因、发病机制、临床表现、治疗、预后及并发症
  - 鉴于“911事件”、炭疽等生化恐怖，本书新增了生化恐怖的内容；自1999年分离出了西尼罗河病毒和2003年发生全球性的SARS以后，世界卫生组织加强了对全球性传播疾病的关注，故本版也新增了全球性传播疾病的内容。



## 教材特色

- 编排美观精致且便于检索
- 彩色打印，文风简洁，安排合理
- “关键概念”小专栏
- 对特殊人群的描述标记清晰
- “理解”小单元
- 在中间和/或结尾总结
- CD-ROM中提供了若干三维动画
- 右上角用不同的颜色区分不同的单元
- 精心制作挑选了大量插图

### Understand

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### Review Exercises

Tattoos consist of pigments that have been injected into the skin.

- A. Explain what happens to the dye once it has been injected and why it does not eventually wash away.

Insulin is synthesized in the beta cells of the pancreas as a prohormone and then secreted as an active hormone.

- A. Using your knowledge of the function of DNA, the RNAs, the endoplasmic reticulum, and the Golgi complex, propose a pathway for the synthesis of insulin.

Persons who drink sufficient amounts of alcohol display rapid changes in central nervous system function, including both motor and behavioral changes, and the odor of alcohol can be detected on their breath.


- A. Use the concepts related to the lipid bilayer structure of the cell membrane to explain these observations.



## 教材特色

- 与国内教材的比较
  - 全英文编写
  - 涉及其他基础学科内容多





## 小 结

- 是一本系统性强、层次分明、语言流畅的教科书，对学生学习和教师授课都有很好的参考价值。
- 与国内病理生理学教材比，对疾病过程中的病理机制的描述缺乏深度；内容过多，现有的课程设置时间内无法完成教学；其他相关学科的教学内容占篇幅过大。