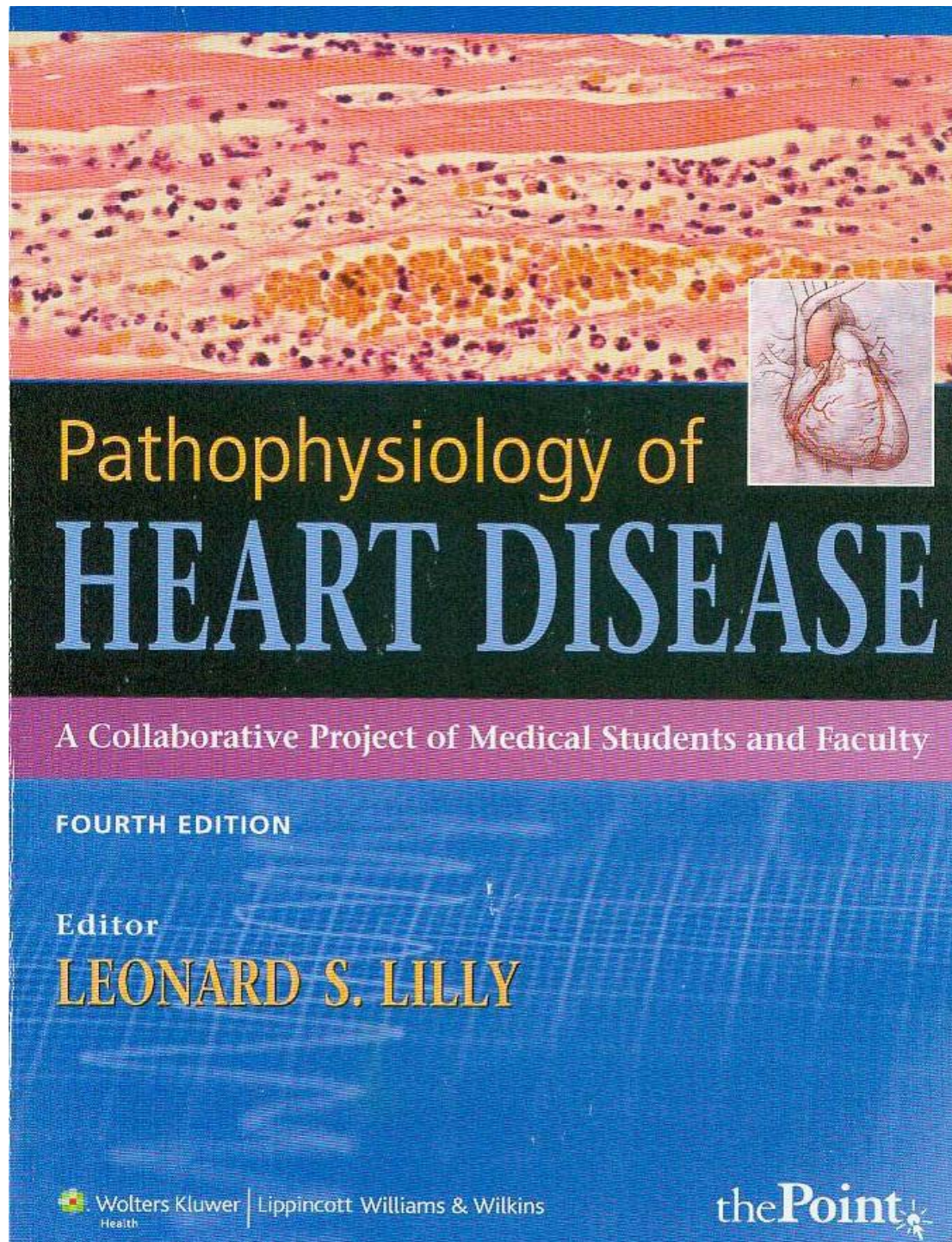


对Lilly 《心脏疾病病理生理学》
一书的评介

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Lilly 所著
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哈佛医学院的
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编写。

从第一版到第
四版，共有79
位学生参与编
写。

该书的前三版受到了广泛好评。已被推荐在美国和其他国家的许多医学院使用，被翻译成其他语种出版。

获得了两项美国医学作家协会的优秀奖。

主要目的：在基础生理课程与临床病人诊治之间架起一座简易的桥梁，有助于医学生和受训的临床医生在心脏与循环疾病知识方面奠定扎实的基础。以心脏疾病为主线，整合了心脏疾病相关的解剖学、组织学、生理学、病理学、病理生理学、药理学以及心血管内科学等多方面知识。

重点：阐述心脏疾病发生的基本机制，以帮助医学生更深入学习以后的心血管疾病临床诊断与治疗的课程。

整体构架

1、心脏的解剖学和生理学

第一章，心脏基本结构与功能；

2、了解临床内容所必需掌握的知识

第二章，心动周期：心音与杂音的产生机制；

第三章，诊断影像与心导管术；

第四章，心电图。

3、主要的心血管疾病

第五章到第十六章：动脉粥样硬化、缺血性心脏病、冠脉综合征、瓣膜性心脏疾病、心力衰竭、心肌病、心律失常的机制、心律失常的临床方面、高血压、心包膜疾病、外周血管疾病、先天性心脏病。

4、主要的心血管药物

第十七章，心血管药物。编者对主要心血管药物临床应用的理论基础进行了解释。

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主要优点

1、语言精练，通俗易懂。

充分考虑到了所面对的读者主体是学生，体现了教材的实用性。

2、结构清晰、层次分明。

每章起始处列出该章的主要内容目录；
每章最后列出了“小结”和相关的“附加阅读文献”。

Basic Cardiac Structure and Function

Vivek Iyer

Elazer R. Edelman

Leonard S. Lilly

CARDIAC ANATOMY AND HISTOLOGY

Pericardium
Surface Anatomy of the Heart
Internal Structure of the Heart
Impulse Conducting System
Cardiac Innervation
Cardiac Vessels
Histology of Ventricular Myocardial Cells

BASIC ELECTROPHYSIOLOGY

Ion Movement and Channels
Resting Potential

Action Potential
Refractory Periods
Impulse Conduction
Normal Sequence of Cardiac Depolarization

EXCITATION-CONTRACTION COUPLING

Contractile Proteins in the Myocyte
Calcium-Induced Calcium Release and the Contractile Cycle
 β -Adrenergic and Cholinergic Signaling

specific procedures and medications, will undoubtedly continue to further our abilities to combat this condition. Yet we have not fully capitalized on what we already know: much cardiovascular risk is modifiable. Effective control of the risk factors described earlier remains a critical component to tame this global scourge. It is here that the patient-physician relationship and the role of medical professionals as community leaders advocating healthy lifestyles remain of cardinal importance.

SUMMARY

1. The normal arterial wall is a three-layered structure, key aspects of which include a single endothelial layer in the intima, smooth muscle cells in the media, and the outer adventitia (see Fig. 5.1).

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Additional Reading

AHA Science Advisory: Lyon Diet Heart Study. Benefits of a Mediterranean-style, National Cholesterol Education Program/American Heart Association Step 1 Dietary Pattern on cardiovascular disease. *Circulation* 2001;103:1823–1825.

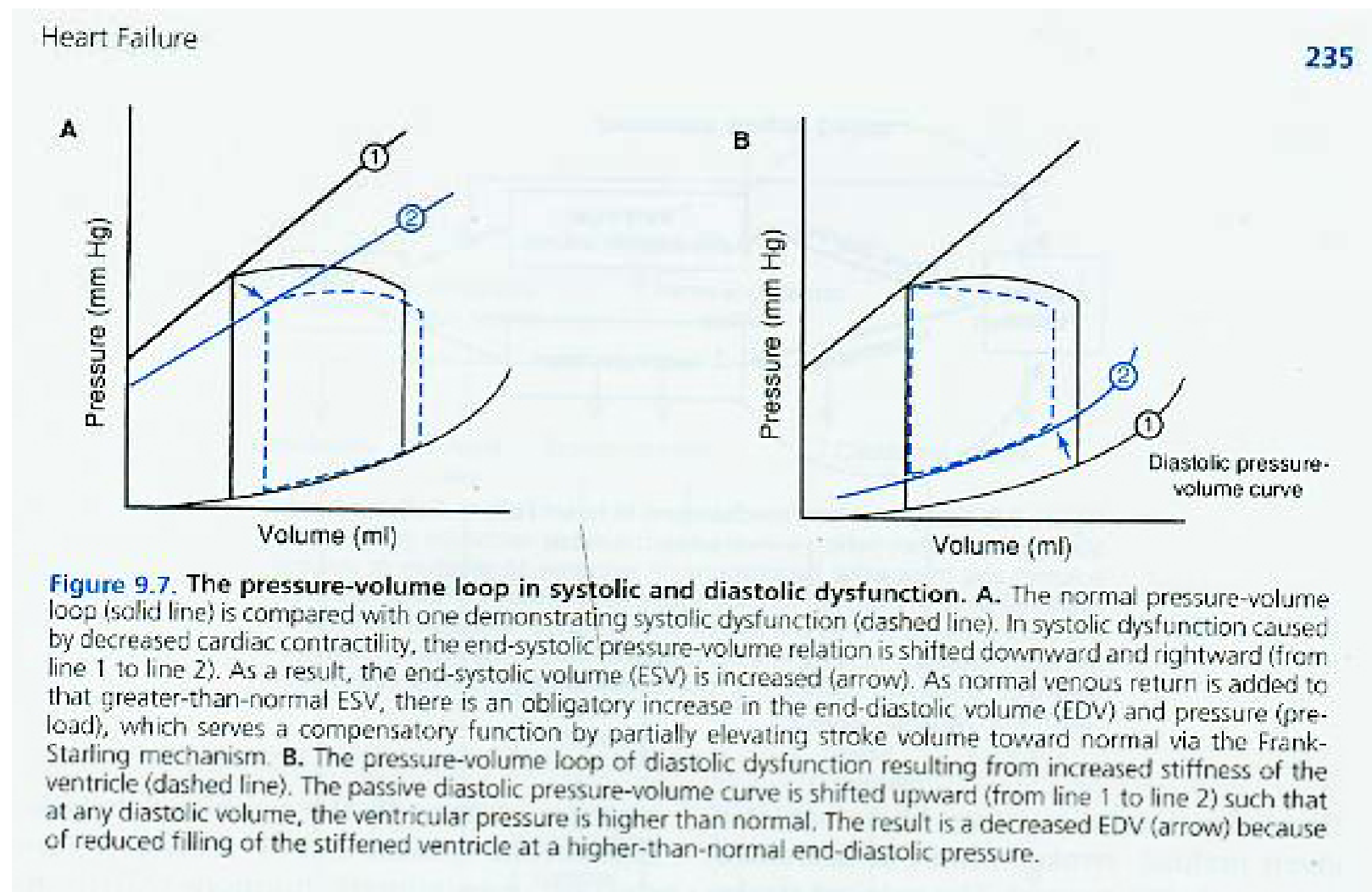
Ansell BJ, Watson KE, Fogelman AM, et al. High-density lipoprotein function. *J Am Coll Cardiol* 2005;46:1792–1798.

Beckman JA, Creager MA, Libby P. Diabetes and atherosclerosis. *JAMA* 2002;287:2570–2581.

Bhatt DL, Steg PG, Ohman EM, et al. International prevalence, recognition, and treatment of cardiovascular risk factors in outpatients with atherothrombosis. *JAMA* 2006;295:180–189.

3. 图文并茂，有利于理解和记忆。

本书“心力衰竭”一章有10个图和6个表格。而国内教材相应章节的图表较少。



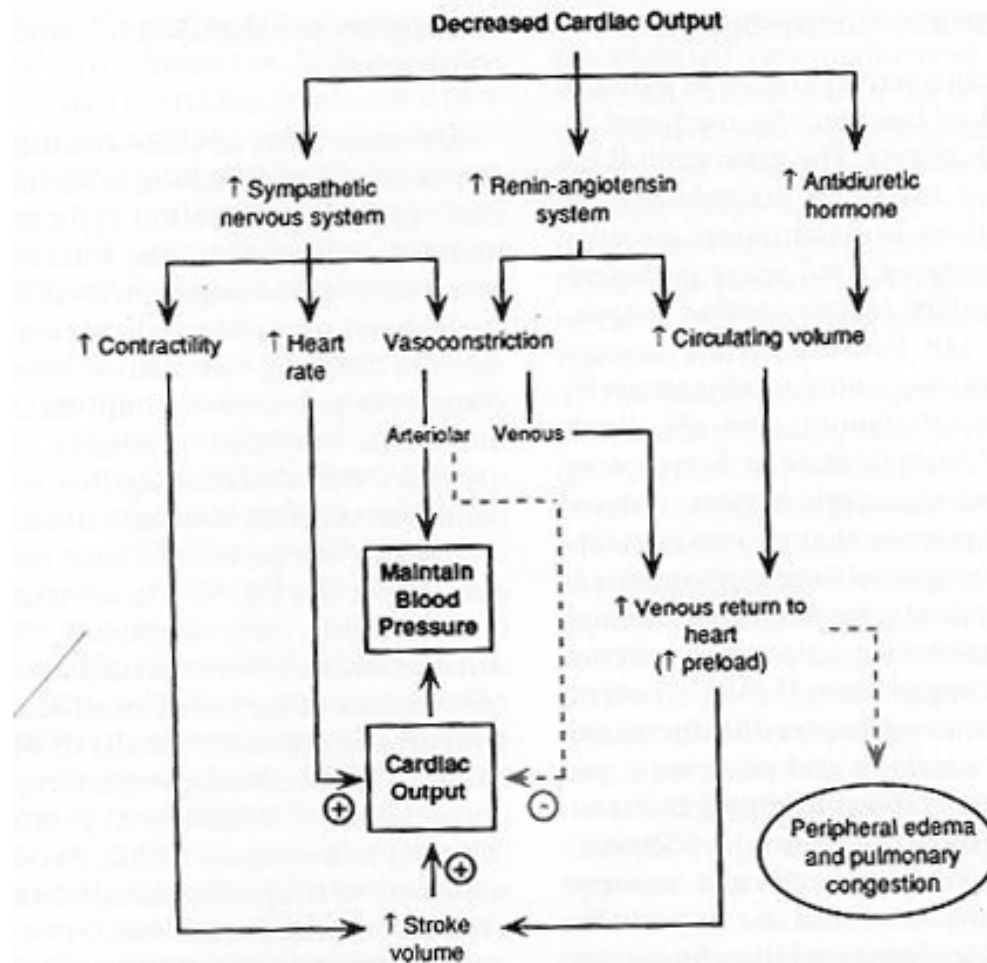


Figure 9.9. Compensatory neurohormonal stimulation develops in response to the reduced forward cardiac output and blood pressure of heart failure. Increased activity of the sympathetic nervous system, renin-angiotensin-aldosterone system, and antidiuretic hormone serve to support the cardiac output and blood pressure (boxes). However, adverse consequences of these activations (dashed lines) include an increase in afterload from excessive vasoconstriction (which may then impede cardiac output) and excess fluid retention, which contributes to peripheral edema and pulmonary congestion.

4、注意反映相关新进展。

- ①肺炎衣原体产生的HSP60具有破坏纤维帽、促凝、增加脂蛋白氧化等作用；
- ②血液中雌激素水平在绝经后期女性动脉粥样硬化发生中的重要作用；
- ③C反应蛋白在动脉粥样硬化发生中的作用；
- ④胰岛素抵抗和代谢综合征与动脉粥样硬化及高血压发生的关系；
- ⑤缺血性心脏疾病的血管再生问题以及冠脉成型术、药物涂层支架和冠脉搭桥术等；
- ⑥醛固酮拮抗剂减轻心脏纤维化和心室重塑；
- ⑦心衰的心脏再同步化治疗（双室起搏器）。

5、注重基础理论和技术与临床实际的密切联系。

心力衰竭一章共有27个版面，而有关临床表现及治疗方面的内容占了其中10个版面，达到37%。

虽有增加教材篇幅之嫌，但却反映了一个基本事实：国外的病理生理教材是由临床专家所编写，故能紧密联系临床实际。而国内的病理生理学教材是基础课教师所编写。由于基础课教师较少参与临床实践，故很难准确地把握和撰写有关临床表现及诊疗等方面的内容，常倾向于编写很多的分子事件和一些抽象空洞的知识（如分子改建、心室舒张负荷等）。这不仅使得教材越编越厚，造成学生难学，而且对临床的实际指导意义不大。

不足之处

1、某些关键名词的概念没有进行归纳。

如对动脉粥样硬化等没有进行明确定义。

2、忽略了部分重要的新进展。

虽有提及心脏移植和血管再生的问题，但没有介绍有关心肌细胞再生、心脏干细胞、干细胞治疗等问题。

3、没有相应的自测题和答案。

适用范围

Lilly一书可作为：

- 1、以系统为导向的临床医学本科生心血管系统教材；
- 2、心血管研究生的教材；
- 3、医学本科生临床实习前的重要课外读物；
- 4、病理生理学教师、心血管住院医师、进修医生等的参考书。

谢谢！