

中文翻译版

原书第7版

# 生殖内分泌学

## Yen & Jaffe's Reproductive Endocrinology

Physiology, Pathophysiology, and Clinical Management

原著 Jerome F. Strauss III

Robert L. Barbieri

主译 乔杰

(中文翻译版)

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科 学 出 版 社

北 京

图字：01-2018-6591

## 内 容 简 介

本书原著由 70 余位世界知名的生殖内分泌专家结合多年临床经验和最新文献编写而成，本版历经近 40 余年的修订，系统地阐述了生殖内分泌学、生殖相关病理生理学和诊疗、生殖技术的最新知识与进展，包括生殖神经内分泌学、免疫与生殖、绝经与老化、男性生育力、生殖与营养、女性不孕、男性不育、辅助生殖、保留生育功能、实验室评估、生殖内分泌影像等，内容权威，图文并茂，适于妇产科医师、生殖中心医师及相关科研人员阅读参考。

### 图书在版编目 (CIP) 数据

生殖内分泌学：原书第 7 版 / (美) 杰罗姆 F. 施特劳斯 III (Jerome F. Strauss III) ; (美) 罗伯特·L. 巴比里 (Robert L. Barbieri) 著；乔杰主译，—北京：科学出版社，2019.1

书名原文：Yen & Jaffe's Reproductive Endocrinology

ISBN 978-7-03-059474-7

I. ①生… II. ①杰…②罗…③乔… III. ①生殖生理学 - 内分泌学 IV. ① R339.2

中国版本图书馆 CIP 数据核字 (2018) 第 255436 号

责任编辑：郭颖 / 责任校对：严娜 王晓茜 彭珍珍

责任印制：肖兴 / 封面设计：龙岩

# ELSEVIER

Elsevier (Singapore) Pte Ltd.

3 Killiney Road, #08-01 Winsland House I, Singapore 239519

Tel: (65) 6349-0200; Fax: (65) 6733-1817

YEN & JAFFE' S REPRODUCTIVE ENDOCRINOLOGY: PHYSIOLOGY, PATHOPHYSIOLOGY, AND CLINICAL MANAGEMENT, SEVENTH EDITION

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ISBN: 978-1-4557-2758-2

This translation of YEN & JAFFE' S REPRODUCTIVE ENDOCRINOLOGY: PHYSIOLOGY, PATHOPHYSIOLOGY, AND CLINICAL MANAGEMENT, SEVENTH EDITION by Jerome F. Strauss III and Robert L. Barbieri was undertaken by China Science Publishing & Media Ltd. (Science Press) and is published by arrangement with Elsevier (Singapore) Pte Ltd.

YEN & JAFFE' S REPRODUCTIVE ENDOCRINOLOGY: PHYSIOLOGY, PATHOPHYSIOLOGY, AND CLINICAL MANAGEMENT, SEVENTH EDITION by Jerome F. Strauss III and Robert L. Barbieri 由中国科技出版传媒股份有限公司 (科学出版社) 进行翻译, 并根据中国科技出版传媒股份有限公司 (科学出版社) 与爱思唯尔 (新加坡) 私人有限公司的协议约定出版。

《生殖内分泌学》(原书第 7 版) (乔杰 主译)

ISBN: 978-7-03-059474-7

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科 学 出 版 社 出 版

北京东黄城根北街 16 号

邮政编码: 100717

http://www.sciencep.com

三河市春园印刷有限公司 印刷

科学出版社发行 各地新华书店经销

\*

2019 年 1 月第 一 版 开本: 889 × 1194 1/16

2019 年 1 月第一次印刷 印张: 61 1/2 插页: 1

字数: 1 682 000

定价: 298.00 元

(如有印装质量问题, 我社负责调换)

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## 译者前言

生殖内分泌学是一个充满了魅力与活力的学科。从精卵结合至胚胎种植，从胚胎发育至呱呱坠地；从幼儿到少年，从青春到垂暮；从生殖轴线到器官靶标，从基因遗传到表观修饰……各个点、线、面，纵横交错，起承转合，绘制出复杂而精妙的画册，无一不散发着迷人的科学魅力。自1978年诞生以来，它恰好经历了40个年头。虽已“不惑”，然而技术创新层出不穷，机制探索深入不懈，无一不勃发着青春的科学活力。这就是我们千千万万生殖内分泌学者在其中沉醉和徜徉的天高海阔。

*Yen & Jaffe's Reproductive Endocrinology* 作为生殖内分泌领域的经典巨著，至今已出版至第7版。它一直与时俱进，不断更新。在这一版中，依旧包括生殖内分泌学、病理生理学与治疗以及生殖技术三大部分；细分36个章节，系统阐述男性及女性生殖轴的调控、各期生殖发育的病理生理机制、生殖相关技术及其发展；此外，还对于细胞治疗不孕症和基因病、生育力及配子发生的相关基因和影响因素，以及表观遗传介导环境暴露对子代健康的影响等方面的临床和基础研究发现，做出补充和深入阐释。

书籍的更新，落后于互联网和即时发布的文献。但是，本著作全面而系统地阐述和剖析的思路，值得我们去学习和研究。沉下心来读一本书，尤其是这样的巨著，不仅是学识的增长，更是我们生殖内分泌学者内在的修养。

我们感恩Yen和Jaffe合编此书并不断延续，我们深切缅怀学界巨擘Yen的离去。唯有坚持初心，破浪前行，方不辜负前辈之引领，不辜负科研之盛世。

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# 原著前言

生殖内分泌学的核心内容之一是利用辅助生育技术，包括体外受精（in vitro fertilization, IVF），去建立健康的家庭。1978年，由IVF诞生的第一个婴儿 Louise Brown，证明通过IVF成功获得人类妊娠是可能的。在同一年，《Yen & Jaffe 生殖内分泌学》（第1版）出版了，代表了一个有坚实科研基础、研究发现直接应用于人类健康的新领域的诞生。30年后，诺贝尔医学或生理学奖颁发给了在生殖内分泌学和不孕症领域作出重大贡献的 Robert G. Edwards, Ph. D. (1925—2013年)。仅以《Yen & Jaffe 生殖内分泌学》（第7版）的出版，献给 Dr. Edwards 和所有投身于推动该领域发展的领军人。

生殖内分泌学和不孕症领域发展的最初几年，学者们主要致力于研究支持最佳的卵子和精子发生的内分泌机制、精卵相互作用，以及胚胎在为发育准备的内膜上的植入。当前，生殖细胞发育和生殖细胞生理学研究显示了非常突出的重要性，应用干细胞治疗不孕症和基因病成为可能。通过冷冻精子和卵子保存生育力已经成为癌症患者和其他考虑保留生殖潜能的关键方法。基于这些转化医学进步的重要性，该版本新加入了相关章节。

人类基因组测序的完成，全基因组分析费用的降低，为找到影响生殖不同方面的基因，如影响初潮和绝经年龄的基因，子宫内膜异位、子宫平滑肌瘤、多囊卵巢综合征的易感基因，影响卵巢储备和精子发生的基因，提供了新的机遇。这些将给诊断和治疗的病理生理学和新途径带来光明的重要发现，在目前这一版中作了着重阐明。

这本教科书第6版出版至今，我们对影响生育的环境因素，包括肥胖，有了更好地理解。这些热议话题在该新版进行了阐述。表观遗传因素被认为可能介导了环境暴露对配子、胚胎和发育中的胎儿的影响。它们也被认为是代际效应的原因。虽然仍处于发展初期，但我们看到了表观遗传学在解释生殖表现型和结局的希望。

我们感谢过去以及现在的作者，他们对于自身所在领域的状态作出了重要评估。他们的贡献大大丰富了这本教科书的内容，我们感谢他们的付出。正是他们的帮助，使得 Jaffe 和 Yen 撰写此书第1版时创造的卓越传统得以延续。

编辑们感谢 Elsevier 的 William Drone, Kel McGowan, Stefanie Jewell-Thomas 和 Steven Stave, Virginia Commonwealth 大学的 Karen Olinger 和 Deborah Weir 对本书准备工作的协助。

Jerome F. Strauss III, MD, PhD

Robert L. Barbieri, MD

（译者 周泽虹 审校 杨 艳）

## 追 忆

2006年，内分泌学，尤其是生殖内分泌学，痛失了一位临床和转化生殖内分泌研究的巨擘，Samuel S. C. Yen（1927—2006年）。他深具洞察力，富于远见；对他的学生严格要求，自己更是追求卓越。在他的时代，他无疑是临床生殖神经内分泌学的领军人物。

我与他合编了这本教科书的前4版。至今它已从英语被翻译成5种语言，包括中国的一个翻印版。这本教科书诞生于华丽而充满诗情画意的Rockefeller基金会Villa Serbelloni会议中心，它坐落于意大利Como湖的三流汇合处。就在这里，与各个国家各学科学者（我和Sam是仅有的两名医生）一起，我们有时间与自由完成此书的篇章。我们共同选择的作者，大部分都是他们撰写的篇章相关领域的出色研究者和临床工作者（尽管可能不是全部都如我们希望的那么迅敏）。

幸运的是，我们的第一个编辑，John Hanley，是一位和我们一样拥有追求高质和卓越的热情的真正学者。我们的原出版商，W. B. Saunders，也是如此。

对每一个版本，Sam都延续他一贯以来对卓越的坚持，并劝导几位作者直至他们也如此。

Sam撰写的大脑和下丘脑-垂体-卵巢轴神经内分泌调节的章节可谓经典。他与他的挚友，诺贝尔奖获得者Roger Guillemin进行了深入及富有创造性的合作，以Sam临床研究中使用的许多下丘脑促分泌激素为特色，Sam在这本教科书中的许多评论都是基于他自己实验室的研究成果。

无论是对他自身、本书的作者，还是对与他共同工作和培训过的其他研究者，Sam都是严格要求却富有魅力的。他的人生，富有、充实、多产，充满创造性。他是一个出类拔萃、丰富多彩的人。像他这样的人，绝无仅有。

Robert B. Jaffe, MD

University of California, San Francisco 2008

（译者 周泽虹 审校 杨 艳）



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