

1987  
The Year Book of  
OBSTETRICS AND  
GYNECOLOGY®

Editors

Daniel R. Mishell, Jr., M.D.

Thomas H. Kirschbaum, M.D. 188 252

C. Paul Morrow, M.D.

1987

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*Professor and Chairman, Department of Obstetrics and Gynecology,  
University of Southern California School of Medicine*

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# Table of Contents

The material covered in this volume represents literature through June 1986.

Journals Represented . . . . .	9
Publisher's Preface. . . . .	11
Introduction . . . . .	13
<b>OBSTETRICS . . . . .</b>	<b>15</b>
1. MATERNAL AND FETAL PHYSIOLOGY . . . . .	17
2. MEDICAL COMPLICATIONS OF PREGNANCY-. . . . .	51
3. OBSTETRIC COMPLICATIONS . . . . .	105
4. ANTEPARTUM FETAL SURVEILLANCE . . . . .	143
5. LABOR AND OPERATIVE OBSTETRICS . . . . .	179
6. OBSTETRIC ANALGESIA AND ANESTHESIA . . . . .	197
7. GENETICS AND TERATOLOGY . . . . .	211
8. THE PUERPERIUM . . . . .	231
9. THE NEWBORN . . . . .	237
<b>GYNECOLOGY . . . . .</b>	<b>251</b>
10. OPERATIVE GYNECOLOGY . . . . .	253
11. GYNECOLOGIC UROLOGY. . . . .	267
12. TUMORS . . . . .	281
Cervical Carcinoma . . . . .	281
Preinvasive Cervical Disease . . . . .	291
Endometrial Neoplasia. . . . .	308
Ovarian Tumors . . . . .	321
Gestational Trophoblastic Disease. . . . .	329
Miscellaneous Topics . . . . .	334
13. INFECTIONS. . . . .	339
14. ENDOCRINOLOGY . . . . .	363
15. MENOPAUSE . . . . .	401
16. INFERTILITY . . . . .	413
Human In Vitro Fertilization and Embryo Transfer: An Overview by STEPHEN P. BOYERS, M.D., AND ALAN H. DECHERNEY, M.D. . . . .	413
17. CONTRACEPTION . . . . .	495
18. ABORTION AND ECTOPIC PREGNANCY . . . . .	517
19. SEXUALITY . . . . .	531
20. BREAST DISEASES . . . . .	535



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Angiology: Dr. Miller, Kirby, Osherson, Rosen, and Stoenberg  
 Cancer: Dr. Hickey, Standish, Clark, and Conley  
 Cardiology: Dr. Schmitt, Collins, Fife, Gifford, and O'Rourke  
 Clinical Case Medicine: Dr. Rogers, Allen, Dean, Gioia, McPherson, Michael,  
 Miller, and Levinson  
 Dermatology: Dr. Cohen, Hender, Johnson, Meyer, Robinson, and  
 Shuman

Endocrinology: Dr. Sobel and Lippman  
 Gastroenterology: Dr. Bass, Kean, Keiser, Kufpanick, Koehler, Miller,  
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Endocrinology: Dr. Bass, Kean, Keiser, Kufpanick, Koehler, Miller,  
 and Shuman  
 Hematology: Dr. Doherty, Chase, and Amadio  
 Internal Medicine: Dr. Wolff, Fife, Kean, Kufpanick, and Shuman  
 Medicine: Dr. Rogers, Allen, Dean, Gioia, McPherson, Michael,  
 Miller, and Levinson  
 Neurology and Neurosurgery: Dr. DeJong, Lurie, and Crowell  
 Obstetrics and Gynecology: Dr. Mitchell, Kufpanick, and Shuman  
 Ophthalmology: Dr. Bass, Kean, Keiser, Kufpanick, Koehler, Miller,  
 and Shuman  
 Pathology: Dr. Bass, Kean, Keiser, Kufpanick, Koehler, Miller,  
 and Shuman  
 Pediatrics: Dr. Bass, Kean, Keiser, Kufpanick, Koehler, Miller,  
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Endometrial Neoplasia. . . . .	308
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Gestational Trophoblastic Disease. . . . .	329
Miscellaneous Topics . . . . .	334
13. INFECTIONS. . . . .	339
14. ENDOCRINOLOGY . . . . .	363
15. MENOPAUSE . . . . .	401
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Human In Vitro Fertilization and Embryo Transfer: An Overview by STEPHEN P. BOYERS, M.D., AND ALAN H. DECHERNEY, M.D. . . . .	413
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19. SEXUALITY . . . . .	531
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## Journals Represented

Acta Chirurgica Scandinavica  
 Acta Cytologica  
 Acta Endocrinologica  
 Acta Obstetrica et Gynecologica Scandinavica  
 Alabama Journal of Medical Sciences  
 American Journal of Clinical Pathology  
 American Journal of Epidemiology  
 American Journal of Obstetrics and Gynecology  
 American Journal of Perinatology  
 American Journal of Physiology  
 American Journal of Public Health  
 American Journal of Surgery  
 Anesthesia and Analgesia  
 Anesthesiology  
 Annals of Internal Medicine  
 Annals of Surgery  
 Archives of Disease in Childhood  
 Archives of Surgery  
 Australian and New Zealand Journal of Obstetrics and Gynaecology  
 Biology of the Neonate  
 British Journal of Obstetrics and Gynaecology  
 British Journal of Radiology  
 British Journal of Surgery  
 British Medical Journal  
 Cancer  
 Circulation  
 Clinical Endocrinology  
 Clinical Genetics  
 Clinical Pharmacology and Therapeutics  
 Contraception  
 Developmental Medicine and Child Neurology  
 Diabete et Metabolisme  
 Diabetologia  
 Diagnostic Imaging  
 Female Patient  
 Fertility and Sterility  
 Gynecologic and Obstetrics Investigation  
 Gynecologic Oncology  
 Human Pathology  
 International Journal of Fertility  
 International Journal of Gynaecology and Obstetrics  
 International Journal of Gynecological Pathology  
 International Journal of Mental Health  
 Israel Journal of Medical Sciences  
 Journal of the American Medical Association  
 Journal of the American Osteopathic Association  
 Journal of Antimicrobial Chemotherapy  
 Journal of the Applied Physiology: Respiratory, Environmental and Exercise  
 Physiology  
 Journal of Cardiovascular Surgery  
 Journal of Chronic Diseases

Journal of Clinical Endocrinology and Metabolism  
 Journal of Clinical Pathology  
 Journal of Infectious Diseases  
 Journal of Medical Genetics  
 Journal of Neurosurgery  
 Journal of Nuclear Medicine  
 Journal of Obstetrics and Gynaecology  
 Journal of Occupational Medicine  
 Journal of Pediatrics  
 Journal of Perinatology  
 Journal of Physiology  
 Journal of Reproductive Medicine  
 Journal of Urology  
 Lancet  
 Maturitas  
 Neuroradiology  
 New England Journal of Medicine  
 Obstetrics and Gynecology  
 Obstetrical and Gynecological Survey  
 Pediatric Pharmacology  
 Pediatrics  
 Plastic and Reconstructive Surgery  
 Proceedings of the National Academy of Sciences  
 Prostaglandins  
 Quarterly Journal of Medicine  
 Radiology  
 Scandinavian Journal of Clinical Laboratory Investigation  
 Scandinavian Journal of Urology and Nephrology  
 Seminars in Perinatology  
 Southern Medical Journal  
 Surgery  
 Surgery, Gynecology and Obstetrics  
 Thorax  
 Thrombosis and Haemostasis  
 Urologia Internationalis  
 Vox Sanguinis  
 World Journal of Surgery



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## **Publisher's Preface**

We are delighted to welcome Daniel R. Mishell, Jr., M.D., and his associates Thomas H. Kirschbaum, M.D., and C. Paul Morrow, M.D., as editors of the YEAR BOOK OF OBSTETRICS AND GYNECOLOGY.

This team is carrying on the tradition of distinguished editorial direction for this YEAR BOOK, commencing with the 1987 edition. We congratulate them and extend our appreciation for their superb work with the YEAR BOOK.



## Introduction

It is both an honor and a challenge to be appointed the new editors of the YEAR BOOK OF OBSTETRICS AND GYNECOLOGY. Because the specialty of obstetrics and gynecology is becoming more complex and because the number of scientific articles on these topics is increasing each year, it was thought that it would be best to have three editors, each with special expertise. Accordingly, Dr. Kirschbaum has reviewed all the articles related to obstetrics, including maternal and fetal physiology, maternal complications, obstetric complications, fetal surveillance, labor and obstetric operations, analgesia and anesthesia, genetics and teratology, the puerperium, and the newborn. Dr. Morrow is responsible for articles on surgery, breast diseases, and gynecologic oncology, including preinvasive cervical disease, cervical carcinoma, endometrial neoplasia, ovarian tumors, and gestational trophoblastic disease, while Dr. Mishell has reviewed the articles dealing with reproductive endocrinology, infertility, menopause, sexuality, abortion, and ectopic pregnancy, as well as gynecologic infection and female urology. As a result of changing emphasis of the specialty, separate sections concerning the menopause and ectopic pregnancy have been added, and the section relating to infertility has been enlarged. After reading nearly every article relating to obstetrics and gynecology published in the scientific literature, we have decided to select those articles for inclusion in the YEAR BOOK that are of greatest interest to the practicing clinician. In our discussions of these articles we have attempted to provide concise comments that are clinically relevant. We hope that these comments will aid the readers in their clinical practices.

As in past YEAR BOOKS, this YEAR BOOK contains a special article summarizing recent advances in one area of our specialty that we believe is of particular interest to the clinician. In the 1987 YEAR BOOK an excellent summary of the present state of knowledge of in vitro fertilization and embryo transfer has been presented by Drs. Stephen P. Boyers and Alan H. DeCherney.

We believe that this volume and subsequent volumes under our editorial direction will provide practitioners with a balanced, comprehensive, and representative summary of the entire ob/gyn scientific literature for the previous year. Any suggestions from readers for possible improvements in this annual volume are welcome.

Daniel R. Mishell, Jr., M.D.  
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C. Paul Morrow, M.D.