
Gynecologic and Obstetric Pathology

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Charles Matthew Quick
Editors

Gynecologic and Obstetric Pathology

Second Edition

With 1659 Figures and 115 Tables

 Springer

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Preface to the Second Edition

Gynecologic and obstetric pathology is a subspecialty of pathology in constant dynamic evolution, as our understanding of various disease processes improve over time. Sophisticated technological advances increasingly aid in defining the molecular basis of some diseases, in clarifying the classification and diagnostic criteria for others, and for uncovering genotypes and other molecular profiles that may directly impact patient care. Nonetheless, diagnostic obstetric and gynecologic pathology remain centered on “traditional” techniques, inclusive of careful clinicopathologic correlation, gross examination, and detailed microscopic examination of cells and tissues, buttressed by immunophenotypic analysis where necessary.

This book is envisioned as a bench or scope side reference that summarizes the current state of diagnostic gynecologic and obstetric pathology, inclusive of both neoplastic and non-neoplastic diseases. It emphasizes practical diagnostic issues that are likely to affect day-to-day decision making by practitioners, while also discussing recent advances in diagnosis and pathogenesis. An overt effort has been made to present information in a concise and narrative manner to facilitate easy accessibility to practicing pathologists, trainees, clinicians, students, and biomedical researchers.

The second edition of *Gynecologic and Obstetric Pathology* provides updated and more expansive coverage than the first edition. This new edition features 52 chapters contributed by a distinguished panel of over 50 pathologists from around the world. The content is organized into nine major sections: Development and Genetics, Pathology of the Vulva and Vagina, Pathology of the Cervix, Endometrial and Uterine Pathology, Pathology of the Fallopian Tube and Ovary, Pathology of the Peritoneum, Broad Ligament and Endometriosis, Pathology of Gestational Trophoblastic Diseases, Frozen Section Diagnosis, and Cytopathology.

The expanded number of chapters allows for a more detailed exploration of traditionally underrepresented areas, such as assessment of residual endometrial hyperplasia after progestin therapy, vulvar melanocytic lesions, or molecular classification of endometrial carcinoma, all of which are now addressed as stand-alone chapters. Each chapter discusses traditional pathologic features, clinical correlations, and, where applicable, current paradigms in disease classification. Microscopic findings are lavishly illustrated, and numerous tables summarize pertinent points for easy reference.

The second edition of this book has been selected for inclusion in the Major Reference Works category within the Springer medical publication series. This recognition likely stems from the popularity and strong reception of the first edition, reflecting its practical value and relevance for a wide audience.

The editors are tremendously grateful to the dedicated physicians whose expertise and commitment to excellence made this work possible. We are hopeful that the second edition of *Gynecologic and Obstetric Pathology* continues to serve as an invaluable resource to all who study and practice pathology of the female genital tract.

Dallas, TX, USA
San Diego, CA, USA
Little Rock, AR, USA
May 2025

Wenxin Zheng, MD
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Acknowledgments

To my dear wife Wenda and my beloved family (Yuxin, Genfu, and Deshun) for their constant love and endless support! In memory of my parents Maoguan Zheng and Jinxian Wang as well as my ultimate mentor Dr. Stuart C. Lauchlan.

Wenxin Zheng

To my wife Abby for her love, encouragement, and inspiration, and to our beloved children Tiarah, Nathaniel, Darrell, and Olivia.

Oluwole Fadare

To my everything, Shelly, and my wonderful children Dexter, Bernice, and Alice.

Charles Matthew Quick

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About the Editors



Wenxin Zheng is a tenured Professor in the Departments of Pathology and Obstetrics and Gynecology at the University of Texas Southwestern Medical Center (UTSW), where he holds the Mark and Jane Gibson Distinguished Professorship in Cancer Research. An internationally recognized gynecologic pathologist and physician-scientist, he directs Gynecologic Pathology at UTSW.

Dr. Zheng earned his medical degree from Shanghai Medical College, Fudan University, completed residencies in anatomic pathology and obstetrics/gynecology, and received advanced training through fellowships at Women & Infants Hospital of Rhode Island and Columbia University Presbyterian Hospital.

Author of over 350 peer-reviewed publications and gynecologic pathology book chapters, Dr. Zheng's research has advanced understanding of endometrial serous carcinogenesis, cell of origins of ovarian epithelial cancers and endometriosis, progestin resistance, and the hormonal etiology of ovarian cancers. He also developed the one-stop cervical care (OSCC) model, supporting global efforts to eradicate cervical cancer by 2030. A passionate educator, his mentorship has nurtured a generation of medical professionals who are now leaders in their own fields, particularly in gynecologic pathology.



Oluwole Fadare, M.D., is the Chief of Anatomic Pathology for the University of California San Diego Health System and a Professor of Pathology at the University of California San Diego School of Medicine. Dr. Fadare completed his residency in Anatomic and Clinical Pathology at Yale-New Haven Hospital, and fellowship in Gynecologic and Breast Pathology at Yale School of Medicine (New Haven, CT, USA). His long-standing clinical and consultation practice is focused on gynecologic and breast cancers, and he has lectured around the world on these and related topics. He has published over 300 original articles, review articles, editorials, and commentaries, primarily on diseases of the female genital tract. He has also authored or edited five books on gynecologic and obstetric pathology. He contributed several chapters to the fifth edition of the *World Health Organization Classification of Female Genital Tract Tumors*, and has been part of consensus panels for practice guidelines published under the auspices of the International Society of Gynecologic Pathology, International Collaboration for Cancer Reporting, College of American Pathologists, and the American Society of Clinical Pathologists. Dr. Fadare has been the recipient of several professional awards, including the 2018 Arthur Purdy Stout Prize for significant career achievements. He is the Editor-in-Chief of *Annals of Diagnostic Pathology*, and serves on the editorial boards of several major pathology journals, including *Modern Pathology*, *Human Pathology*, *American Journal of Clinical Pathology*, *International Journal of Gynecological Pathology*, and *Archives of Pathology and Laboratory Medicine*, among others. Dr. Fadare's research focuses primarily on the integration of morphological, phenotypic, and molecular aspects of gynecologic and breast neoplasms to optimize diagnostic, prognostic, and predictive patient care.



Charles “Matt”hew Quick is a professor and clinical educator in the Department of Pathology at University of Arkansas for Medical Sciences (UAMS) in Little Rock, Arkansas. He completed fellowships in surgical pathology at UAMS and Women’s & Perinatal pathology at Harvard Medical School, Brigham & Women’s Hospital. Dr. Quick serves as the Vice Chair of Anatomic Pathology, Director of Gynecologic Pathology, and the Surgical Pathology Fellowship.

He has published numerous research publications and review articles, and has authored and co-edited multiple textbooks, including *High-Yield Pathology: Gynecologic and Obstetric Pathology*, and the two-volume text book *Gynecologic and Obstetric Pathology*. Dr. Quick serves on the Education committee, is an Ambassador for the United States and Canadian Academy of Pathology (USCAP), and has taught numerous interactive microscopy courses for the USCAP at both annual meetings and the new teaching complex located in Palm Springs, California. He serves as a member of the editorial boards of the *American Journal of Surgical Pathology* and the *International Journal of Gynecologic Pathology*. Dr. Quick’s research interests include the study of endometrial precancers, vulvar squamous carcinogenesis, and the impact of epithelial-mesenchymal transition on tumor behavior. He lives in Little Rock, Arkansas, with his wife Shelly and their three children Dexter, Bernice, and Alice, as well as their energetic family dog, Zelda.

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