DIFFERENTIAL DIAGNOSIS IN CYTOPATHOLOGY

The cytologic method of pathology is now one of the most widely used diagnostic modalities worldwide. This new and practical text in cytopathology is an organ-based guide for professionals in which malignant and benign tumors are the predominant focus, but the full spectrum of infectious and inflammatory disorders will also be presented in detail, and in both adult and pediatric populations. Coverage is not limited to findings from only the light microscope but also includes many examples of other genetic, molecular, and immunologic diagnostic modalities, giving pathologists diagnostic and clinical criteria needed when formulating a diagnosis and differential diagnosis. This book is illustrated with more than 2000 full color photomicrographs and accompanied by a CD-ROM of all images in a downloadable format. Differential Diagnosis in Cytopathology proves to be the most comprehensive text in a market in which no other has focused exclusively on essential diagnostic criteria.

Dr. Paolo Gattuso is Professor and Director of Anatomic Pathology at Rush Medical College in Chicago, Illinois.

Dr. Vijaya B. Reddy is Professor and Associate Chair of the Department of Pathology at Rush Medical College in Chicago, Illinois.

Dr. Shahla Masood is Professor and Chair of the Department of Pathology and Laboratory Medicine at the University of Florida College of Medicine in Jacksonville, Florida.
To my wife Nancy and my children Vincent and Francesca
  Paolo Gattuso

To my husband Jagan Mohan for his unfailing love and support
  Vijaya B. Reddy

To my family Drs. Ahmad, Ali, and Sina Kasraeian
  Shahla Masood
DIFFERENTIAL DIAGNOSIS
IN CYTOPATHOLOGY

Edited by

Paolo Gattuso
Rush Medical College

Vijaya B. Reddy
Rush Medical College

Shahla Masood
University of Florida College of Medicine
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List of Contributors

Syed Z. Ali, M.D.
Associate Professor of Pathology and Radiology
Associate Director of Cytopathology
The Johns Hopkins Hospital
Baltimore, Maryland

Rose Anton, M.D.
Assistant Professor of Pathology
Weill Medical Center of Cornell University
New York, New York
Pathologist
The Methodist Hospital
Houston, Texas

Güliz A. Barkan, M.D.
Assistant Professor of Pathology
Loyola University School of Medicine
Maywood, Illinois

Joan F. Cangiarella, M.D.
Associate Professor of Pathology
Director of Cytopathology, Vice Chair
New York University School of Medicine
New York, New York

Odile David, M.D.
Assistant Professor of Pathology
Director of Cytopathology
University of Illinois College of Medicine
Chicago, Illinois

Rosa M. Dávila, M.D.
Staff Pathologist
Missouri Baptist Medical Center
St. Louis, Missouri
<table>
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<th>List of Contributors</th>
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</table>
| Antonino Di Certo, M.D.  
Director of General Surgery  
Oppido Mamertina  
Reggio Calabria, Italy |
| Tarik M. Elsheikh, M.D.  
Director of Pathology, PA Labs  
Ball Memorial Hospital  
Muncie, Indiana |
| Kristin Galan, M.D.  
Surgical Pathology Fellow  
Rush University Medical Center  
Chicago, Illinois |
| Paolo Gattuso, M.D.  
Professor of Pathology  
Director of Anatomic Pathology  
Rush Medical College  
Chicago, Illinois |
| Shriram Jakate, M.D.  
Professor of Pathology  
Director of Laboratory  
Rush Medical College  
Chicago, Illinois |
| Umesh Kapur, M.D.  
Assistant Professor of Pathology  
Loyola University School of Medicine  
Maywood, Illinois |
| Lester J. Layfield, M.D.  
Professor of Pathology  
Director of Anatomic Laboratory  
Huntsman Cancer Hospital  
Salt Lake City, Utah |
| Pascale Levine, M.D.  
Assistant Professor of Pathology  
New York University School of Medicine  
New York, New York |
| Shahla Masood, M.D.  
Professor of Pathology and Chair of Pathology  
University of Florida College of Medicine  
Jacksonville, Florida |
| Claire W. Michael, M.D.  
Professor of Pathology  
Director of Cytopathology Laboratory  
University of Michigan Health System  
Ann Arbor, Michigan |
List of Contributors

Anil V. Parwani, M.D., Ph.D.
Division Director, Pathology Informatics
Staff Pathologist, Shadyside Hospital
UPMC Shadyside Hospital
Pittsburgh, Pennsylvania

Telma C. Pereira, M.D.
Assistant Professor of Pathology
Drexel University College of Medicine
Pathologist
Allegheny General Hospital
Pittsburgh, Pennsylvania

Marilin Rosa, M.D.
Assistant Professor of Pathology
University of Florida College of Medicine
Jacksonville, Florida

Reda S. Saad, M.D.
Associate Professor of Pathology
Drexel University College of Medicine
Pathologist
Allegheny General Hospital
Pittsburgh, Pennsylvania

Jan F. Silverman, M.D.
Chairman and Director of Anatomic Pathology Laboratory
Professor of Pathology
Drexel University College of Medicine
Pittsburgh, Pennsylvania

Aylin Simsir, M.D.
Associate Professor of Pathology
New York University School of Medicine
New York, New York

Luan D. Truong, M.D.
Professor of Pathology and Laboratory Medicine
Weill Medical College of Cornell University
New York, New York
Adjunct Professor of Pathology and Medicine
Baylor College of Medicine
Houston, Texas
Chief of Nephropathology
The Methodist Hospital
Houston, Texas

Eva M. Wojciech, M.D.
Professor and Chair of Pathology
Loyola University School of Medicine
Maywood, Illinois

Lourdes R. Ylagan, M.D.
Assistant Professor of Pathology and Immunology
Washington University School of Medicine
St. Louis, Missouri
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|  | Mohammad M. Yousef, M.D.  
Cytopathology Fellow  
The University of Michigan  
Ann Arbor, Michigan |
|  | Jing Zhai, M.D., Ph.D.  
Staff Pathologist  
Department of Pathology  
Cedars-Sinai Medical Center  
Los Angeles, California |
Preface

Advances in science and technology in recent years have revolutionized our approach to the diagnosis and management of various disease entities. Similarly, there has been significant change in the fundamental concept of delivery of health care. Emphases are now directed to finding the most efficient ways to deliver personalized medicine and to improve the quality of patient care. Integrated care has resulted in better treatment planning and improved patient satisfaction, and minimally invasive diagnostic and therapeutic models have replaced excisional biopsies and open surgical procedures.

Pathologists have played a central role in the realization of delivery of personalized patient care. Their efforts in the development, validation, and implementation of various technologies have been central in providing appropriate diagnostic, prognostic, and predictive information. The discipline of cytopathology has also played a critical role in responding to the changing trends in health care. Aside from learning more about morphologic features and diagnostic pitfalls, cytopathologists have been actively engaged in using advanced technologies on cytologic preparations in an effort to maximize the efficiency of the practice of cytopathology. Currently, cytologic preparations are routinely used in ancillary studies in order to offer the most accurate information about the nature and biology of a disease process.

Practice of cytopathology is exciting and challenging. A good cytopathologist must be a good surgical pathologist. In many ways, cytopathology practice is similar to looking through the keyhole and being able to see the entire room. It takes imagination, knowledge, and courage to do so. We believe that Differential Diagnosis in Cytopathology will offer the knowledge and the vision necessary for the practice of cytopathology.

Differential Diagnosis in Cytopathology is designed to offer a systematic, concise, and organized approach to addressing differential diagnosis in cytopathology and the application of possible ancillary studies to help reach the correct diagnosis. Differential Diagnosis in Cytopathology is unique because of the remarkably simple language used and the quality of the images.

Each chapter has a uniform format. Every entity discussed features several sections: clinical findings, cytologic features, special stains, immunohistochemistry, modern techniques for diagnosis, differential diagnosis, and take-home messages, or “pearls.”

The book is designed to fulfill the needs of pathology residents, cytopathology Fellows, cytotecnologists, and the academic/pathology community in cytologic diagnosis of the female genital tract, exfoliative pulmonary cytology, body cavity fluids (peritoneal, pleural) CSF, and intra-ocular cytology, gastrointestinal tract, urine cytology, cytopathology of the breast, fine needle aspiration of tumors of unknown origin, soft tissue and bone, thyroid gland, kidney and adrenal gland, head and neck, salivary glands, liver, pancreas, prostate, lymph nodes, gonads, and cytopathology of the central nervous system.
This multiauthored publication is representative of the fine work of many key opinion leaders in the discipline of cytopathology who have spent a great deal of time in the preparation of their chapters. We greatly appreciate their contributions and their sincere effort in this process.

Paolo Gattuso, MD
Vijaya B. Reddy, MD
Shahla Masood, MD
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