



A M E R I C A N S O C I E T Y O F C Y T O P A T H O L O G Y

# CYTO TELECONFERENCE

2004-2005

*The American Society of Cytopathology invites your participation in its monthly teleconference series.*

*These sixty-minute multi-media teleconferences will begin at 3:00 p.m. Eastern Time on the fourth Tuesday of each month (with the exception of December, which is the second Tuesday) beginning April 27, 2004 thru March 22, 2005. The teleconferences address the broad spectrum of cytology practice.*

Defining and promoting excellence in cytopathology striving for the highest quality of patient care.

**Program Director**

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AMERICAN SOCIETY OF CYTOPATHOLOGY



## GOALS

This teleconference series will provide an update in cytology. Diagnostic criteria, diagnostic problems, and differential diagnoses in cytology will be discussed. New techniques and developments in cytology will be presented. Quality assurance and legal issues will also be addressed.

## OBJECTIVES

Participants are provided with specific objectives for each particular teleconference, as well as a series of study questions. In addition, there are learning objectives for the series.

*At the end of the Cytoteleconference Series, the participants should be able to:*

- Identify cytologic features of neoplastic and non-neoplastic diseases of the major organ systems, including Female Genital Tract, Biliary System, Kidney and Adrenal Glands and Salivary Glands.
- Recognize key cytologic features of normal and disease states in a variety of specimens including exfoliative specimens, CS Cavity fluids and fine needle aspirations.
- Discuss current issues in gynecologic cytology including ASCUS, endocervical cytology and legal ramifications.
- Identify the role and limitations of new and emerging technologies in cytology, including image cytometry, flow cytometry, immunocytochemistry and molecular cytogenetic techniques.
- Discuss various types of quality assurance programs with a goal of improving patient care and meeting federal regulation standards.

## CE CREDIT INFORMATION

The American Society of Cytopathology is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

The American Society of Cytopathology designates this continuing medical education activity for 24 credit hours in Category 1 of the Physician's Recognition Award of the American Medical Association.

This teleconference series has also been approved for 24 hours of credit for the CECC Program of the American Society of Cytopathology and for cytotechnologists licensed by the state of Florida. The state of California has approved the teleconference series for 12 hours for licensed cytotechnologists.

## PROGRAM INFORMATION

### Handouts and Slides/PowerPoint

A "master" set of written materials and a set of kodachromes or PowerPoint CD Rom will be sent to each hub site. It is the hub site's responsibility to copy and distribute written materials to participants prior to the teleconference.

### Audio Tapes

Tapes of each presentation are available.

### Registration

It is acceptable for several groups in the same geographical area to form a single hub site for the teleconference series. Complete the Registration form and return with payment to the American Society of Cytopathology.

## CANCELLATION POLICY

Refunds will not be issued for cancellations received less than five business days prior to the start of the teleconference. A full refund, less \$50.00 processing fee, will be issued for cancellation requests received in writing at least five business days prior to the start of the teleconference.

The refund is issued after the return of any program materials mailed in advance.

ASC reserves the right to cancel a teleconference due to circumstances beyond its control. Cancellations will be announced no later than five business days before a program's scheduled date. Registered sites are notified immediately and receive a complete refund or a credit for the program cancelled by the ASC.

**April 27, 2004**

### A Re-Training Program for Cytologists: Back to Basics

**Maria A. Friedlander, M.P.A., CT(ASCP)**  
Education Coordinator  
Memorial Sloan-Kettering Cancer Center  
School of Cytopathology

The current shortage of cytotechnologists and decreased enrollment in cytotechnology programs is an issue that currently affects our profession. The field of cytology cannot afford to lose cytotechnologists. Re-training offers an opportunity to retain cytotechnologists who fail to demonstrate competency or pass the BOR/proficiency tests. Cytologists who want to resume working in cytology after time away from the field and individuals who want an overall review of GYN & NON-GYN material may also benefit from retraining. This teleconference will provide information related to remediation for cytologists. Sources for retraining as well as the fundamentals of setting up a re-training program will be discussed.

**May 25, 2004**

### Pharmacogenomics at the Bedside

**Jeffrey S. Ross, M.D.**  
Chairman, Department of Pathology and  
Laboratory Medicine  
Albany Medical College  
Vice President, Molecular Medicine  
Millennium Pharmaceuticals, Inc.

Pharmacogenomics (PGx) has recently been applied to discover markers predictive of response to single agent and multi-agent chemotherapy for cancer. Cytology samples, especially fine needle aspiration biopsies, are ideally suited for PGx studies due to small sample requirements, tumor cell enrichment and convenience to patients associated with the procedures. This presentation will include a brief background section on PGx, contrast PGx with pharmacogenetics and discuss applications in the treatment of ovarian cancer with taxol and platinin drugs and the neo-adjuvant treatment of locally advanced breast cancer with taxol followed by 5-fluorouracil, adriamycin and cytoxin. In addition, the clinical development of the proteasome inhibitor, bortezomib (VELCADE™) for the treatment of late stage multiple myeloma has included a transcriptional profiling-based PGx strategy using bone marrow aspiration biopsy samples to identify genomic predictors of response and further elucidate the mechanism of action of the drug.



**June 22, 2004****Beyond "Clumped Chromatin": Molecular Characterization of Cytologic Specimens**

Douglas P. Clark, M.D.

Associate Professor of Pathology and Oncology  
Director of Cytopathology

The Johns Hopkins Medical Institutions

Cytopathology is entering a new era in which targeted cancer therapy will require the identification of molecular markers of responsiveness within tumor samples. Cytologic screening tests may also be augmented by molecular characterization. This lecture will present some important new molecular assays and discuss their application to cytologic specimens.

**July 27, 2004****Neoplasms and Precursor Lesions of the Biliary Tract and Pancreas: A Cytopathologist's Perspective**

Lester Layfield, M.D.

Professor and Head, Division of Anatomic Pathology  
University of Utah School of Medicine

Precursor lesions of biliary and pancreatic carcinomas are recognized histologically. While less well-defined cytologically, cellular changes are seen in FNA and Brush specimens, which correlate with pancreatic intraepithelial neoplasia, intraductal papillary mucinous neoplasms and bile duct dysplasias. These cytologic findings are described and their relationships to pancreatic and biliary adenocarcinomas discussed.

**August 24, 2004****Diagnostic Challenges in Kidney and Adrenal FNA**

Muhammad B. Zaman, M.D.

Professor of Clinical Pathology  
New York Medical College

The many faces of renal cell carcinoma at the primary and metastatic sites will be illustrated. The challenge of distinguishing benign and malignant renal tumors with pink-granular cytoplasm will be covered. The similarity in appearance of some adrenal and renal tumors as well as the role of ancillary studies will be shown.

**September 28, 2004****Proteomics: A New Horizon for Cytopathology**

Cesar Angeletti, M.D., Ph.D.

Associate Research Scientist  
Department of Pathology  
Yale University School of Medicine

Proteomics, the global analysis of tissue proteins, is an area of research with continuous technologic evolution. When compared to genomics, it provides a more complete understanding of the mechanisms underlying disease processes, and this has led to its increasing use in many biomedical research disciplines, especially pathology and subspecialties. The purpose of this presentation is to provide an outline of these techniques and discuss recent applications to cytopathology.

**October 26, 2004****Aspiration Biopsy of the Breast as a Diagnostic Procedure**

Jerry Waisman, M.D.

Professor of Pathology  
New York University School of Medicine

Mammary aspiration biopsy commonly is used for screening, but may be diagnostic with knowledge about the patient, the lesion, the biopsy, and technique of smearing. Ordinary benign lesions can be separated into predictive categories, and common malignant lesions can be sorted with prognostic factors. Selected examples will be presented.

**November 23, 2004****Challenges in Serous Effusion Cytology**

Michael Facik, M.P.A., CT(ASCP)

Supervisor, Cytopathology Department  
University of Rochester

This discussion will emphasize the cytologic characteristics of difficult serous effusions. Actual case scenarios will be used to discuss the appropriate use of immunocytochemical stains. Special attention will be given to the morphologic similarities or differences of various primary cancers after they have metastasized to the serous cavities. The pitfalls encountered in the diagnosis of malignant mesothelioma will also be discussed.

**December 14, 2004****Diagnostic Pitfalls in Aspiration Cytopathology of Salivary Glands**

Syed Z. Ali, M.D.

Associate Professor of Pathology and Radiology  
The Johns Hopkins Hospital

Sana O. Tabbara, M.D.

Professor of Pathology  
George Washington University Medical Center

Despite our vast experience and understanding of the cytomorphology of salivary gland disease, there still remain a number of entities where an accurate cytologic diagnosis is difficult to achieve on fine-needle aspiration. Some of the examples include: unusual phenotypes of common primary tumors (such as pleomorphic adenoma), metaplastic/reactive changes in benign neoplasms (such as Warthin tumor), cystic tumors (such as acinic cell carcinoma, papillary-cystic variant), basaloid tumors, small round cell tumors and metastatic lesions. The teleconference will selectively discuss these problematic areas with elaboration of helpful morphologic pointers and discussion of the differential diagnoses.

**January 25, 2005****Advances in Cervical Cancer Screening**

Diane Solomon, M.D.

Division of Cancer Prevention  
National Cancer Institute

Mark E. Sherman, M.D.

Division of Cancer Epidemiology & Genetics  
National Cancer Institute

Our understanding of the etiology and pathogenesis of cervical cancer have dramatically expanded in recent years. This seminar will demonstrate how these scientific advances have been translated into improved approaches to cervical cancer prevention. Topics for discussion will include established and evolving applications of HPV DNA testing and prospects for development of other potential biomarkers.

**February 22, 2005****The "Ins and Outs" of Atypical Glandular Cells in Gynecologic Cytology**

Suzanne M. Selvaggi, M.D.

Professor and Director of Cytopathology  
University of Wisconsin Medical School

This teleconference discusses the difficult diagnostic dilemmas within the category of atypical glandular cells including mimics of endocervical adenocarcinoma in-situ (tubal metaplasia, high grade squamous intraepithelial lesions involving endocervical glands, endocervical cells post cervical cone, cervical endometriosis/endometrial cells-lower uterine segment) and mimics of endocervical/endometrial adenocarcinoma (atypical endocervical repair, IUD effect, endocervical microglandular hyperplasia and papillary syncytial metaplasia). A practical, realistic approach to the diagnosis of these entities will be presented.

**March 22, 2005****FISH Application to Cytology**

Chris A. French, M.D.

Instructor in Pathology  
Brigham and Women's Hospital  
Harvard Medical School

In an era of Molecular Pathology, it will become increasingly important to extend molecular tools applicable to surgical pathology to cytopathology. This talk will focus on FISH applications currently or potentially applicable to cytopathology diagnosis and/or prognosis.

**TELECONFERENCE REGISTRATION FORM**

Institution \_\_\_\_\_  
 Department \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Country \_\_\_\_\_  
 Telephone \_\_\_\_\_ Fax \_\_\_\_\_  
 Email \_\_\_\_\_  
 Site Contact Person \_\_\_\_\_

**PLEASE MARK YOUR PROGRAM CHOICES BELOW:**

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> <b>April 27, 2004</b><br>A Re-Training Program for Cytologists: Back to Basics   | <input type="checkbox"/> <b>August 24, 2004</b><br>Diagnostic Challenges in Kidney and Adrenal FNA            | <input type="checkbox"/> <b>December 14, 2004</b><br>Diagnostic Pitfalls in Aspiration Cytopathology of Salivary Glands     |
| <input type="checkbox"/> <b>May 25, 2004</b><br>Pharmacogenomics at the Bedside   | <input type="checkbox"/> <b>September 28, 2004</b><br>Proteomics: A New Horizon for Cytopathology             | <input type="checkbox"/> <b>January 25, 2005</b><br>Advances in Cervical Cancer Screening                                   |
| <input type="checkbox"/> <b>June 22, 2004</b><br>Beyond "Clumped Chromatin": Molecular Characterization of Cytologic Specimens                      | <input type="checkbox"/> <b>October 26, 2004</b><br>Aspiration Biopsy of the Breast as a Diagnostic Procedure | <input type="checkbox"/> <b>February 22, 2005</b><br>The "Ins and Outs" of Atypical Glandular Cells in Gynecologic Cytology |
| <input type="checkbox"/> <b>July 27, 2004</b><br>Neoplasms and Precursor Lesions of the Biliary Tract and Pancreas: A Cytopathologist's Perspective | <input type="checkbox"/> <b>November 23, 2004</b><br>Challenges in Serous Effusion Cytology                   | <input type="checkbox"/> <b>March 22, 2005</b><br>FISH Application to Cytology  |

		Tapes	CD Roms	Please mark your preference:
<input type="checkbox"/> Per Month	<input type="checkbox"/> \$200.00	<input type="checkbox"/> \$15.00	<input type="checkbox"/> \$75.00	<input type="checkbox"/> Kodachromes or <input type="checkbox"/> PowerPoint
<input type="checkbox"/> 6 Months	<input type="checkbox"/> \$900.00	<input type="checkbox"/> \$60.00	<input type="checkbox"/> \$200.00	
<input type="checkbox"/> 12 Months	<input type="checkbox"/> \$1700.00	<input type="checkbox"/> \$100.00	<input type="checkbox"/> \$350.00	
<input type="checkbox"/> CD Roms only	<input type="checkbox"/> \$600.00 (12 months)			

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Please return registration form with payment to:

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