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NEWS

77  CytoSource: Current Issues for Cytopathology
    
    Bryn Nelson

    This news section is written by a medical journalist and offers Cancer Cytopathology readers timely information on events, issues, and personalities of interest to the subspecialty. This edition discusses a recent Institute of Medicine report on how to reduce diagnostic errors and the challenges to implementing the report’s recommendations.

    Published online 16 February 2016

CLINICIAN’S CORNER

79  The Enduring Role and Relevance of Cytology in the Diagnosis of Infectious Diseases
    
    Jennifer C. Thompson

    Published online 8 January 2016

COMMENTARY

81  Cytology Nomenclature and 2015 World Health Organization Classification of Lung Cancer
    
    Maureen F. Zakowski

    The recommendations of the 2015 World Health Organization classification of lung tumors are examined and discussed in terms of cytologic diagnoses.

    Published online 13 October 2015

ORIGINAL ARTICLES

89  Young Investigator Challenge: Validation and Optimization of Immunohistochemistry Protocols for Use on Cellient Cell Block Specimens
    
    Jennifer L. Sauter, Karen L. Grogg, Julie A. Vrana, Mark E. Law, Jennifer L. Halvorson, and Michael R. Henry

    Nearly one-half (43%) of the antibodies tested in the current study failed initial validation using immunohistochemistry conditions that were established in the study laboratory for formalin-fixed, paraffin-embedded material. The findings of the current study emphasize the importance of validating immunohistochemistry protocols for non-formalin-fixed material before clinical use.

    Published online 16 February 2016

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100 Has Afirma Gene Expression Classifier Testing Refined the Indeterminate Thyroid Category in Cytology?
Sung-Eun Yang, Peggy S. Sullivan, Jianhua Zhang, Rekha Govind, Mary R. Levin, Jian-Yu Rao, and Neda A. Moatamed

The Afirma gene expression classifier is a molecular test for thyroid fine-needle aspiration specimens with an indeterminate cytologic diagnosis. Comparison of a single institution’s characteristics before and after the introduction of the gene expression classifier test further defines implications for the test in patient care.

Published online 30 September 2015

110 Endoscopic Ultrasound–Guided FNA and ProCore Biopsy in Sampling Pancreatic and Intra-Abdominal Masses
Jessica Dwyer, Liron Pantanowitz, N. Paul Ohori, Reetesh K. Pai, Colleen Vrbin, Randall E. Brand, and Sara E. Monaco

The use of ProCore fine-needle biopsy in the evaluation of a variety of solid intra-abdominal masses sampled via endoscopic ultrasound is described. Overall, in a subset of cases that are difficult to diagnose by fine-needle aspiration alone, ProCore fine-needle biopsy is associated with greater cellularity and hence more material for ancillary studies and is consequently associated with more satisfactory specimens in comparison with matched fine-needle aspiration samples.

Published online 2 October 2015

122 Cytopathologic Diagnosis of Oncocytic Type Intraductal Papillary Mucinous Neoplasm: Criteria and Clinical Implications of Accurate Diagnosis
Michelle D. Reid, Christina R. Stallworth, Melinda M. Lewis, Gizem Akkas, Bahar Memis, Olca Basturk, and Volkan Adsay

The cytologic features of oncocytic intraductal papillary mucinous neoplasms are classic and distinctive, and they are similar to those of their histologic counterparts. Failure to recognize these features on fine-needle aspiration may lead to delayed resection and overtreatment with neoadjuvant chemoradiation, which is typically ineffective in these neoplasms which, even if invasive, have a better overall prognosis than invasive pancreatic ductal adenocarcinoma.

Published online 28 September 2015

135 CD10, BCL6, and MUM1 Expression in Diffuse Large B-Cell Lymphoma on FNA Samples
Immacolata Cozzolino, Valeria Varone, Marco Picardi, Carlo Baldi, Domenico Memoli, Giuseppe Ciunci, Carmine Selleri, Gaetano De Rosa, Antonio Vetrani, and Pio Zeppa

The CD10-B-cell lymphoma 6 (BCL6)-multiple myeloma oncogene 1 (MUM1) immunocytochemical algorithm is reliable on cell blocks and conventional smears of fine-needle aspiration samples. The fine-needle aspiration subclassification of diffuse large B-cell lymphoma may provide additional prognostic information that might be useful when histological sample are not available.

Published online 28 September 2015

(Continued)
The Clinical Performance of Primary HPV Screening, Primary HPV Screening Plus Cytology Cotesting, and Cytology Alone at a Tertiary Care Hospital

Jung-Woo Choi, Younghye Kim, Ju-Han Lee, and Young-Sik Kim

Three algorithms for cervical cancer screening are compared in routine practice. The results demonstrate that primary human papillomavirus screening alone is similar in performance to combined primary human papillomavirus screening plus cytology for detecting cervical intraepithelial neoplasia grade 2 or worse.

Published online 12 October 2015
MISSION AND SCOPE

Cancer Cytopathology, a journal of the American Cancer Society, provides a unique forum for interaction and dissemination of original research and educational information relevant to the practice of cytopathology and its related oncologic disciplines. The journal strives to have a positive effect on cancer prevention, early detection, diagnosis, and cure by the publication of high-quality content.

The mission of Cancer Cytopathology is to present and inform readers of new applications, technological advances, cutting-edge research, novel applications of molecular techniques, and relevant review articles related to cytopathology.

About the cover image: Urothelial carcinoma (Papanicolaou stain). Atypical cells in a bladder washing; positive FISH results confirmed urothelial carcinoma. Adapted from Clinical Cancer Research, 2012;18(8):2058-2067. doi: 10.1158/1078-0432.CCR-11-3210. Image courtesy of Dr. Tom Huvos, Divisions of Urologic Oncology, City of Hope National Medical Center, CA. All rights reserved.