

LETTER TO THE EDITOR

New Generation of Automated Analyzer for Pleural and Peritoneal Fluids Cytology

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TO THE EDITOR

We read the publication on "Performance Evaluation of a New Generation of Automated Analyzer for Pleural and Peritoneal Fluids Cytology" with great interest [1]. Bottini et al. concluded that the "Sysmex XN-3000 showed strong correlation and agreement with traditional microscopy with an equivalent performance compared to the XE-5000 [1]". In fact, the new generations of automated analyzers are usually proven to perform well in cytology analysis. Regarding XN-3000, the previous report showed its advantage in malignant cell analysis [2]. However, it should be noted that there is still a need for re-evaluation of the aberrant results. Regarding the reference analyzer, XE-5000, as suggested by Boer et al., "careful review of the plausibility of the results continues to be compulsory" [3].

Declaration of Interest:

None.

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References:

1. Bottini PV, Garlipp CR, Nogueira BF, Pompeo DB, Souza MI. Performance Evaluation of a New Generation of Automated Analyzer for Pleural and Peritoneal Fluids Cytology. *Clin Lab* 2018; 64:1783-6 (PMID: 19233149).
2. Park SH, Kim HH, Kim IS, Yi J, Chang CL, Lee EY. Cell Population Data NE-SFL and MO-WX From Sysmex XN-3000 Can Provide Additional Information for Exclusion of Acute Promyelocytic Leukemia From Other Acute Myeloid Leukemias: A Preliminary Study. *Ann Lab Med* 2016;36:607-10 (PMID: 27578517).
3. Boer K, Deufel T, Reinhoefer M. Evaluation of the XE-5000 for the automated analysis of blood cells in cerebrospinal fluid. *Clin Biochem* 2009;42:684-91 (PMID: 19233149).

RESPONSE

Reply to Dr. Rujittika Mungmunpantip and Dr. Viroj Wiwanitkit Regarding the Letter To The Editor “New Generation of Automated Analyzer for Pleural and Peritoneal Fluids Cytology”

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TO THE EDITOR

We agree with the reflections made by Dr. Rujittika Mungmunpantip and Dr. Viroj Wiwanitkit. According to our experience the vast majority of neoplastic and/or atypical cells are classified as high fluorescence cells by both analyzers (Sysmex XE-5000 and XN-3000). In fact, our results showed that “Similar to the Sysmex XE-5000, the presence of high fluorescence cells above 2.0/100 WBC in the XN-3000 is also visible at the upper border of the DIFF scattergram and indicates the presence of non-hematological cells (macrophages, mesothelial cells or malignant cells)” [1]. Corroborating this observation, we finish our article stating that “In both analyzers the presence of high fluorescence cells above 2.0/100 WBC should be confirmed by microscopic analysis”.

Declaration of Interest:

None.

Reference:

1. Bottini PV, Garlipp CR, Nogueira BF, Pompeo DB, Souza MI. Performance Evaluation of a New Generation of Automated Analyzer for Pleural and Peritoneal Fluids Cytology. Clin Lab. 2018 Oct 1;64(10):1783-6 (PMID: 30336515).

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