



Peripheral Blood B Cell Distribution of Patients with Multiple Sclerosis

Multipl Sklerozlu Hastalarda Periferik Kan B Hücre Dağılımı

© Joob Beuy¹, © Viroj Wiwanitkit²

¹Medical Academic Center, Clinic of Neurology, Bangkok, Thailand

²Haina Medical University, Department of Medicine, Hainan Sheng, China

Keywords: Peripheral blood, B cell, distribution, multiple sclerosis
Anahtar Kelimeler: Periferik kan, B hücre, dağılım, multipl skleroz

Dear Editor,

We read the publication on “Flow cytometry analysis of peripheral blood B cell distribution of patients with multiple sclerosis” with great interest (1). Yılmaz et al. (1) concluded that “Peripheral blood B cell subset measurements are not likely to be used as a biomarker for the prediction of disease progression. Although B cells have a well-known pathogenic significance, B cell population alterations do not occur during the progression of the disease”. In fact, the progression of disease might be due to several factors, hence, there is no doubt that the B cell population study might not have any clinical value. In addition, there are several concerns in laboratory medicine in using flow cytometry for B cell population studies. The abnormal distribution of B cells in disease is the basic problem that can lead to errors in B cell measurements using flow cytometry (2). Second, in immunophenotyping of B cell, the CD19-negative B lineage is common and this can lead to errors in flow cytometry analysis (3,4).

Ethics

Peer-review: Internally peer-reviewed.

Financial Disclosure: The authors declared that this study received no financial support.

References

1. Yılmaz V, Tura DA, Ulusoy C, Yaşargün DÖ, Çınar SA, Türkoğlu R. Flow cytometry analysis of peripheral blood B cell distribution of patients with multiple sclerosis. *Turk J Neurol* 2017;23:219-224.
2. Duffy KR, Subramanian VG. On the impact of correlation between collaterally consanguineous cells on lymphocyte population dynamics. *J Math Biol* 2009;59:255-285.
3. Bansal S, Sharma U, Jain A, Sharma R, Yagnik B. CD19-negative B-lineage acute lymphoblastic leukemia: A diagnostic and therapeutic challenge. *Indian J Pathol Microbiol* 2017;60:596-598.
4. Ghodke K, Bibi A, Rabade N, Patkar N, Subramanian PG, Kadam PA, Badrinath Y, Ghogale S, Gujral S, Tembhare P. CD19 negative precursor B acute lymphoblastic leukemia (B ALL)-Immunophenotypic challenges in diagnosis and monitoring: A study of three cases. *Cytometry B Clin Cytom* 2017;92:315-318.

Address for Correspondence/Yazışma Adresi: Joob Beuy MD, Medical Academic Center, Clinic of Neurology, Bangkok, Thailand

Phone: +6624658292 E-mail: beuyjoob@hotmail.com ORCID ID: orcid.org/0000-0002-5281-0369

Received/Geliş Tarihi: 23.03.2018 **Accepted/Kabul Tarihi:** 30.03.2018

©Copyright 2018 by Turkish Neurological Society
Turkish Journal of Neurology published by Galenos Publishing House.