



*Translation from Bulgarian language*

**NATIONAL SPECIALIZED HOSPITAL FOR ACTIVE TREATMENT  
OF HEMATOLOGIC DISEASES (NSHATHD)**

Hematology and Immunology Laboratory  
Sofia, 6 Plovdivsko Pole Str., Tel.: 02/4542225, 02/4542216

To: Dr. Yankova

Health institution: NSHATHD

**MYELOGRAM EXAMINATION FINDINGS**

No. 495

Date: 26.04.2018

Patient's full name: Ivan Moskov Mihailov Age: 42  
Case history / Amb. No.: 4275  
Clinical diagnose / indications: C95.9 Leukemia, unspecified; Hb: 77 g/l; Leu: 4.9 g/l; Thr: 80 g/l  
Type of sample: Peripheral blood Fresh  
Medulla Fresh  
Sample quality: Good

**CYTOLOGICAL AND CYTOCHEMICAL EXAMINATION SHOWED:**

**CELLULARITY Scanty material. Single medullar particles and medullar blood aspirated!**

Granulocytic: Erythroblastic correlation =

**CELL POPULATIONS:**

Neutrophilic	%	46.0	All maturation phases presented with dysplasia in ~ 50 % of the segmentonuclear neutrophils.
Maturation index		0.8	within normal range
Eosinophilic	%		
Basophilic	%		
Monocyte-macrophage	%	6.4	Promonocytes: 2.2 %; Monocytes: 4.2 %.
Erythroblastic	%	5.4	
Megacaryocytic	%		Single megacaryocytes
Lymphocytic	%	3.4	
Plasmocytic	%	0.4	
Abnormal cells	%	38.4	Blasts: medium-sized cells, fine chromatin, light basophil cytoplasm, visible nucleoli, single 'cup-like'.

Stroma

**HEMOGRAMM** Leucocytes (x 10<sup>9</sup>/l) 4.900  
St % 1  
Sg % 55, single Pseudo-Pelger

*[Handwritten signature]*



Eo %  
 Ba %  
 Mo % 4  
 Ly % 10  
 Others % Blasts: 28 % - one part of the cells with 'cup-like' characteristics, A+  
 in single cells; Myelocytes: 1 %; Metamyelocytes: 1 %;  
 Erythrocytes: normochromic, anisocytosis, macrocytes, microcytes.

**CYTOCHEMISTRY AND IMMUNOCYTOCHEMISTRY** Yes

Peroxidase (+) pos. in ~ 5 % of the cells  
 α-Naphthyl Acetate (Non-Specific Esterase) (+) pos. in ~ 20 – 25 % of the cells

**FINDING:** Cytological findings of an acute myelomonocytic leukemia (FAB AML M4).  
 Final subtype should be defined after an assessment of the molecular  
 characteristics and genetic make-up.

**COMMENT:** To be compared with a flow-cytometric analysis.

Examined by: Dr. M. Yagurinoski Head of Laboratory: Prof. Dr. M. Genova  
 (signature illegible) (signature illegible)

Date: 27.04.2018

*I, the undersigned Krasimira Filipova Teneva certify the true translation from Bulgarian into  
 English of the document attached – Myelogram Examination Findings Report. The translation  
 consists of 2 (two) pages.*

Translator: Krasimira Filipova Teneva

