

CONTINUING MEDICAL EDUCATION ΣΥΝΕΧΙΖΟΜΕΝΗ ΙΑΤΡΙΚΗ ΕΚΠΑΙΔΕΥΣΗ

Hematology-Cell Morphology – Case 8

(A)

Size 12–20 μm , nuclear-cytoplasmic (N/C) ratio approximately 1.5 to 2:1, nucleus with a fine chromatin appearance, 1–2 well visible nucleoli and hyperbasophilic cytoplasm containing few granules (figures 1 to 5, 7, 9, 10).

(B)

Size 12–18 μm , with a large lobulated or kidney shaped nucleus, N/C ratio approximately 2:1, with fine chromatin network, containing no nucleolus and with abundant gray-blue cytoplasm containing fine granulation (figures 6 to 10).

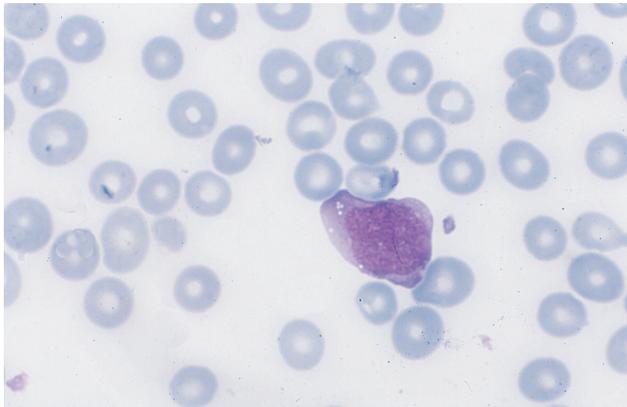


Figure 1



Figure 2

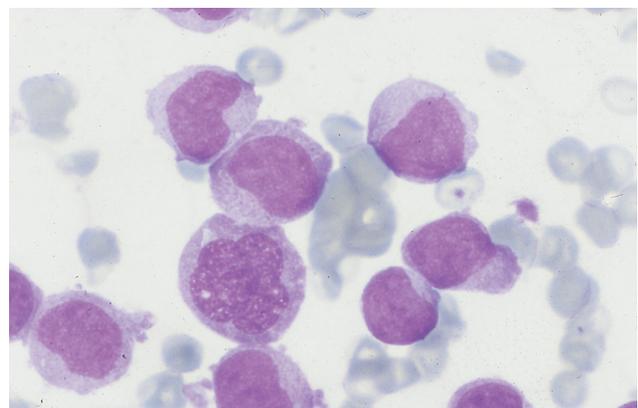


Figure 3

ARCHIVES OF HELLENIC MEDICINE 2020, 37(6):846–848
ΑΡΧΕΙΑ ΕΛΛΗΝΙΚΗΣ ΙΑΤΡΙΚΗΣ 2020, 37(6):846–848

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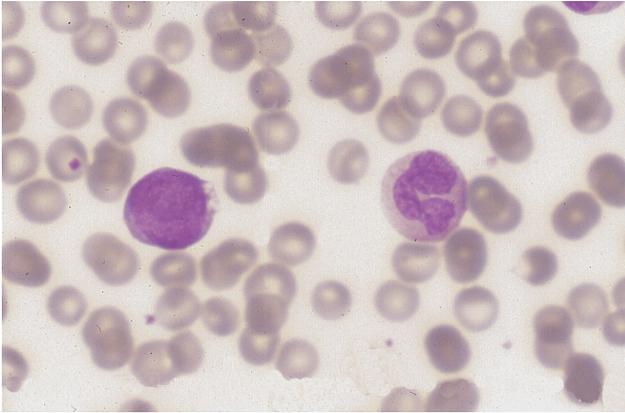


Figure 4

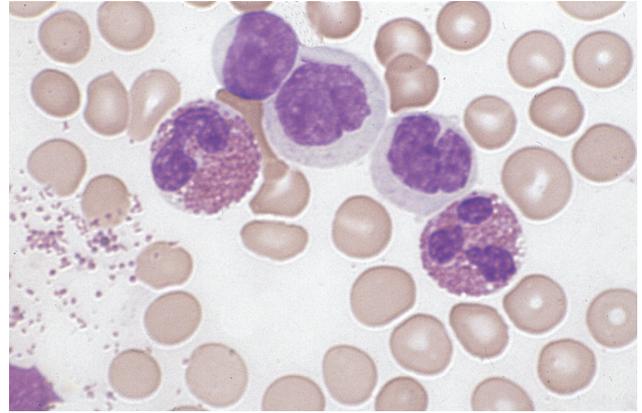


Figure 7

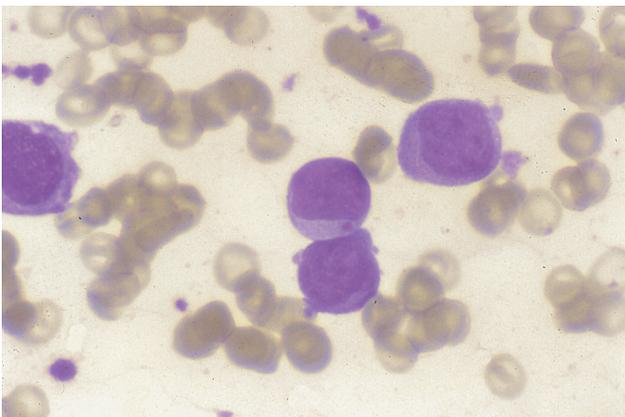


Figure 5

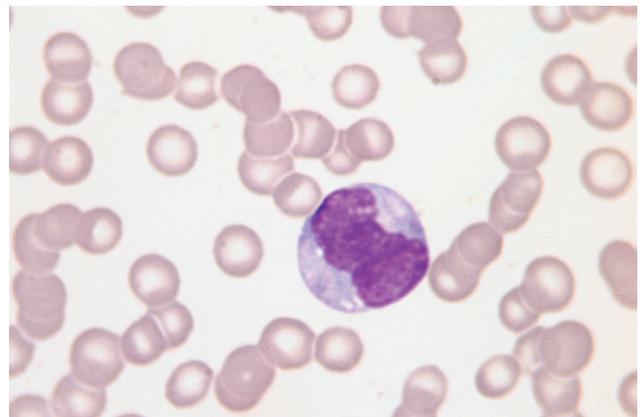


Figure 8

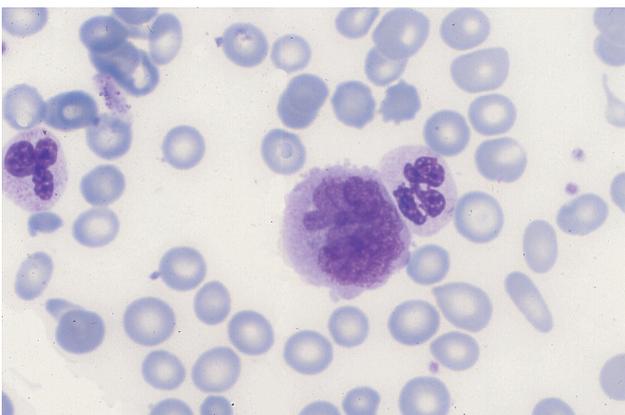


Figure 6

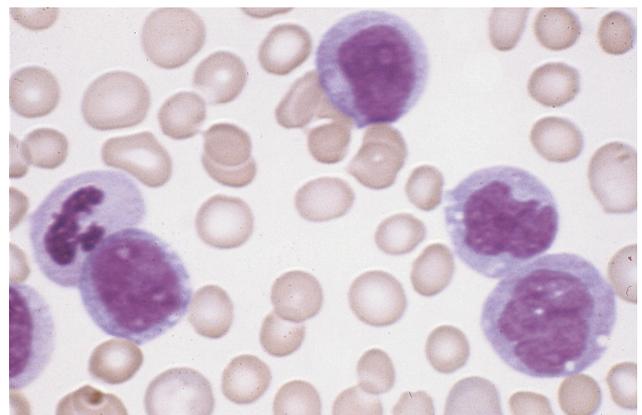


Figure 9

(C)

Size 15–30 μm with a round, lobated or kidney-like nucleus, with pale chromatin arranged in fine strands and well defined margins of light gray-blue cytoplasm containing light purple staining azurophilic granules and sometimes vacuole formation (figures 11 to 15).

Numbers in the peripheral blood are $0.2\text{--}0.8 \times 10^9/\text{L}$, and in the bone marrow they consist approximately of 1.6–4.3% of myeloid cells. After peripheral blood circulation for about three days it migrates in the different tissues where it stays for a long time continuing its function as a macrophage.

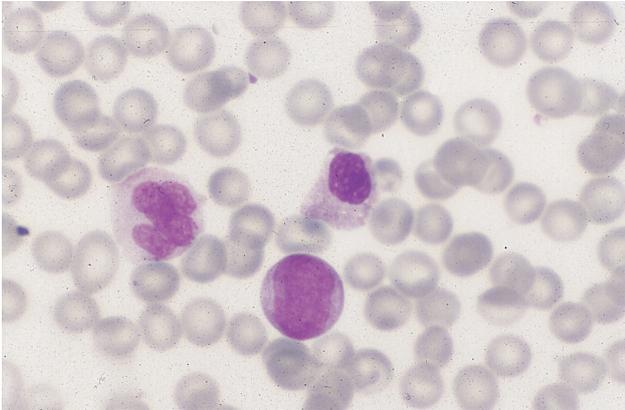


Figure 10

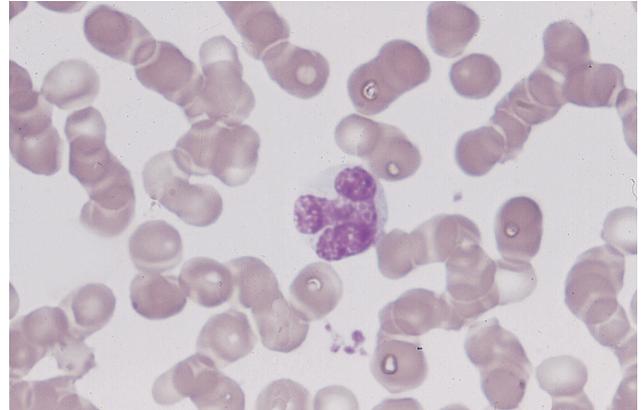


Figure 13



Figure 11

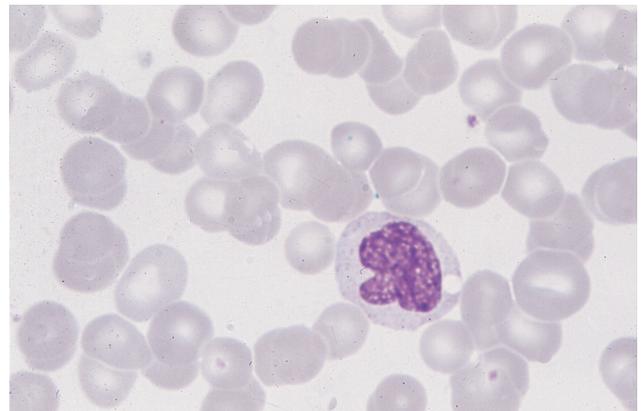


Figure 14

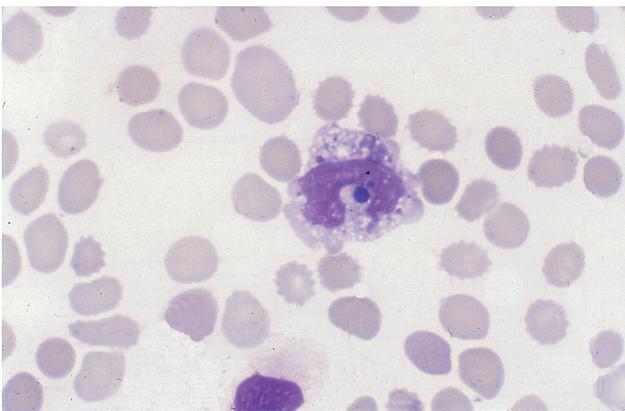


Figure 12

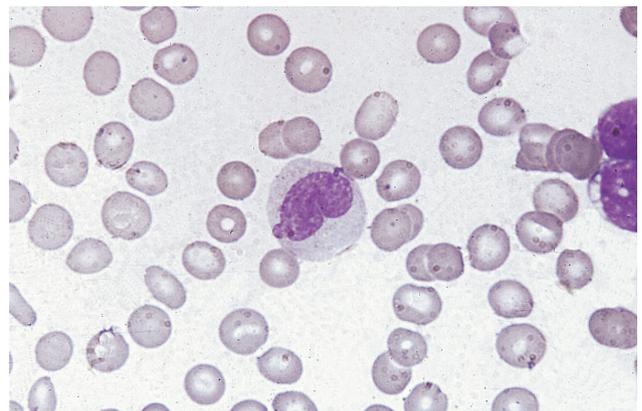


Figure 15

References

1. MELETIS J. *Atlas of hematology*. 3rd ed. Nireas Publ Inc, Athens, 2009:35-46

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Cell type: (A) Monoblast; (B) promonocyte; (C) monocyte